

STIC-Biotech/ChemLib

125746

From: Switzer, Juliet
Sent: Thursday, January 05, 2006 4:38 PM
To: STIC-Biotech/ChemLib
Subject: please search

for 09/883839 in us issued, pgpub and interference databases only

SEQ ID NO 1 where the "T" at position 279 of SEQ ID NO: 1 is replaced with a "C";

SEQ ID NO 1 where the "T" at position 336 of SEQ ID NO: 1 is replaced with an "A";

SEQ ID NO 1 where the "C" at position 365 of SEQ ID NO: 1 is replaced with a "T";

SEQ ID NO 1 where the "G" at position 386 of SEQ ID NO: 1 is replaced with an "A";

SEQ ID NO 1 where the nucleotides "GGC" are inserted following position 401 of SEQ ID NO: 1.

Juliet Switzer
Art Unit 1634
phone: 571-272-0753
office: Remsen 2A61
mailbox: 2C70

RECEIVED
JAN - 5 2006
STIC

Searcher: _____
Searcher Phone: _____
Date Searcher Picked up: _____
Date completed: _____
Searcher Prep Time: _____
Online Time: _____

Type of Search
NA# _____ AA# _____
S/L: _____ Oligomer: _____
Encode/Transl: _____
Structure #: _____ Text: _____
Inventor: _____ Litigation: _____

Vendors and cost where applicable
STN: _____
DIALOG: _____
QUESTEL/ORBIT: _____
LEXIS/NEXIS: _____
SEQUENCE SYSTEM: _____
WWW/Internet: _____
Other (Specify): _____

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GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: January 8, 2006, 17:55:42 ; Search time 367.698 Seconds
(without alignments)
10451.753 Million cell updates/sec

Title: US-09-883-839-1-C279
Perfect score: 2162
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Scoring table: IDENTITY NUC
Gapop 10.0 , Gapext 1.0

Searched: 1303057 seqs, 888780828 residues

Total number of hits satisfying chosen parameters: 2606114

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued Patents NA.*
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2: /cgn2_6/ptodata/1/ina/5 COMB.seq.*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Query	Score	Match	Length	DB	ID	Description
1	2158.4	99.8	2162	3	US-09-351-198-1		Sequence 1, Appli
2	2158.4	99.8	2162	3	US-09-113-426-1		Sequence 1, Appli
3	2158.4	99.8	2162	3	US-09-016-434-1379		Sequence 1379, Ap
4	2148.8	99.4	2162	3	US-09-355-709C-7		Sequence 7, Appli
5	2136.4	98.8	2160	3	US-08-188-275A-1		Sequence 1, Appli
6	1551.4	71.8	1610	3	US-08-889-108-7		Sequence 7, Appli
7	1551.4	71.8	1610	3	PCT-US94-10358-7		Sequence 7, Appli
8	1198.2	55.4	1203	3	US-09-826-509-544		Sequence 544, App
9	1177.4	54.5	2229	3	US-09-214-904-1		Sequence 1, Appli
10	1163.6	53.8	1182	3	US-09-826-509-546		Sequence 546, App
11	1147	53.1	1981	3	US-08-387-707-15		Sequence 15, Appl
12	1147	53.1	1981	3	US-08-405-271A-15		Sequence 15, Appl
13	1130.2	52.3	2135	3	US-08-430-286A-1		Sequence 1, Appli
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17	1099	50.8	1618	3	US-08-120-601B-3		Sequence 3, Appli
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19	1099	50.8	1618	6	PCT-US94-10358-3		Sequence 3, Appli
20	1071	49.5	1610	3	US-09-761-962A-16		Sequence 16, Appl
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ALIGNMENTS

RESULT 1
US-09-351-198-1
; Sequence 1, Application US/09351198
; Patent No. 6335168
; GENERAL INFORMATION:
; APPLICANT: Kreek, Mary J
; APPLICANT: Laforge, Karl S
; APPLICANT: Yu, Lei
; APPLICANT: Tichfield, Jay A.
; TITLE OF INVENTION: ALELES OF THE HUMAN MU OPIOID RECEPTOR, DIAGNOSTIC
; TITLE OF INVENTION: METHODS OF USING SAID ALLELES, AND METHODS OF TREATMENT
; TITLE OF INVENTION: BASED THEREON
; FILE REFERENCE: 600-1-236N
; CURRENT APPLICATION NUMBER: US/09/351,198
; CURRENT FILING DATE: 1999-07-09
; EARLIER APPLICATION NUMBER: 60/092,402
; EARLIER FILING DATE: 1998-07-10
; NUMBER OF SEQ ID NOS: 7
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1
; LENGTH: 2162
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (2063)
; OTHER INFORMATION: No. 6335168feature for this position in GeneBank.
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (2051)
; OTHER INFORMATION: No. 6335168feature for this position in GeneBank.
US-09-351-198-1

Query Match 99.8%; Score 2158.4; DB 3; Length 2162;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 2161; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

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Db 2161 TC 2162

RESULT 2

US-09-113-426-1
; Sequence 1, Application US/09113426
; Patent No. 6337207
; GENERAL INFORMATION:
; APPLICANT: Kreek, Mary J
; APPLICANT: Laforge, Karl S


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; APPLICANT: Yu, Lei
; APPLICANT: Tischfield, Jay A.
; TITLE OF INVENTION: ALLELES OF THE HUMAN MU OPIOID RECEPTOR, DIAGNOSTIC
; TITLE OF INVENTION: METHODS OF USING SAID ALLELES, AND METHODS OF TREATMENT
; TITLE OF INVENTION: BASED THEREON
; FILE REFERENCE: 600-1-226
; CURRENT APPLICATION NUMBER: US/09/113,426
; CURRENT FILING DATE: 1998-07-10
; NUMBER OF SEQ ID NOS: 7
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1
; LENGTH: 2162
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (2063)
; OTHER INFORMATION: No. 6337207feature for this position in GeneBank.
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (2091)
; OTHER INFORMATION: No. 6337207feature for this position in GeneBank.
; US-09-113-426-1

Query Match          99.8%; Score 2158.4; DB 3; Length 2162;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 2161; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

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Db 2101 CCAAAGAGTCATCATGGGGATTTTTCATTTCTTAGGCTTTCACTGTTTCTTCTGGAAT 2160
QY 2161 TC 2162
Db 2161 TC 2162

RESULT 3

US-09-016-434-1379
; Sequence 1379, Application US/09016434
; Patent No. 6500938
; GENERAL INFORMATION:
; APPLICANT: Janice Au-Young
; APPLICANT: Jeffrey J. Seilhamer
; TITLE OF INVENTION: COMPOSITION FOR THE DETECTION OF SIGNALING
; TITLE OF INVENTION: PATHWAY GENE EXPRESSION
; NUMBER OF SEQUENCES: 1490
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: INCYTE PHARMACEUTICALS, INC.
; STREET: 3174 PORTER DRIVE
; CITY: PALO ALTO
; STATE: CALIFORNIA
; COUNTRY: USA
; ZIP: 94304
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Word Perfect 6.1 for Windows/MS-DOS 6.2
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/016,434
; FILING DATE: HEREWITH
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: Zeller, Karen J.
; REGISTRATION NUMBER: 37,071
; REFERENCE/DOCKET NUMBER: PA-0002 US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (650) 855-0555
; TELEFAX: (650) 845-4166
; INFORMATION FOR SEQ ID NO: 1379:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2162 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single

; TOPOLOGY: linear
; IMMEDIATE SOURCE:
; LIBRARY: GENBANK
; CLONE: 9452072
US-09-016-434-1379

Query Match 99.8%; Score 2158.4; DB 3; Length 2162;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 2161; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 GGAATTCGGCTATATAGGCAGAGAGAAATGTCAAGATGCTCAGCTCGGTCCCTCCGCTGA 60
Db 1 GGAATTCGGCTATATAGGCAGAGAGAAATGTCAAGATGCTCAGCTCGGTCCCTCCGCTGA 60
QY 61 CGCTCCTCTCTCTCTCAGCCAGGACTGGTTTCTGTAAGAAAACAGCAGGAGCTGTGCACG 120
Db 61 CGCTCCTCTCTCTCTCAGCCAGGACTGGTTTCTGTAAGAAAACAGCAGGAGCTGTGCACG 120
QY 121 GCGCAAAAGGAACGGCTGAGGCGCTTGGAAACCGGAAAAGTCTCGGTGCTCTCTGGGTACCT 180
Db 121 GCGCAAAAGGAACGGCTGAGGCGCTTGGAAACCGGAAAAGTCTCGGTGCTCTCTGGGTACCT 180
QY 181 CGCAGCGGTGCCCCCGCGCGCTCAGTACCATGGAACAGCAGCGTGCCTCCACGAAACG 240
Db 181 CGCAGCGGTGCCCCCGCGCGCTCAGTACCATGGAACAGCAGCGTGCCTCCACGAAACG 240
QY 241 CCAGCAATTGCACTGATGCCTTGGCGTACTCAAGTTGCTCCCGCAGCAACCCAGCCCGGTT 300
Db 241 CCAGCAATTGCACTGATGCCTTGGCGTACTCAAGTTGCTCCCGCAGCAACCCAGCCCGGTT 300
QY 301 CCTGGGTCAAATTTGTCCCACTTAGATGCAACCTCTCGGACCATGCGGTCCGAAACCGCA 360
Db 301 CCTGGGTCAAATTTGTCCCACTTAGATGCAACCTCTCGGACCATGCGGTCCGAAACCGCA 360
QY 361 CCAACCTGGGCGGAGAGACAGCCTGTGCCTCCGACCGGCACTCCCTCATGATCAACG 420
Db 361 CCAACCTGGGCGGAGAGACAGCCTGTGCCTCCGACCGGCACTCCCTCATGATCAACG 420
QY 421 CCATCAGCATCATGCGCCCTCTACTCCATGCTGCTGGTGGGGCTCTTCGAAACTTCC 480
Db 421 CCATCAGCATCATGCGCCCTCTACTCCATGCTGCTGGTGGGGCTCTTCGAAACTTCC 480
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Db 481 TGGTCATGTATGTGATTTGTCAGATACACCAAGATGAAGAAGCTGCCACCAACATCTACATTT 540
QY 541 TCAACCTTTGCTCTGGCAGATGCTTTAGCCACAGTACCTCGCTCCAGAGTGTGAATTT 600
Db 541 TCAACCTTTGCTCTGGCAGATGCTTTAGCCACAGTACCTCGCTCCAGAGTGTGAATTT 600
QY 601 ACCTAATGGGAACATGGCCATTTGGAACCATCTTTGCAAGATAGTATCTCCATAGATT 660
Db 601 ACCTAATGGGAACATGGCCATTTGGAACCATCTTTGCAAGATAGTATCTCCATAGATT 660
QY 661 ACTATAACATGTTTCAACAGCATATTTCAACCTCTGCAACCATGAGTGTGATCGATACATTTG 720
Db 661 ACTATAACATGTTTCAACAGCATATTTCAACCTCTGCAACCATGAGTGTGATCGATACATTTG 720
QY 721 CAGTCTGCCACCTCTCAAGGCTTTAGATTTCCGTAATCTCCCGGAAATGCCAAAATTTATCA 780
Db 721 CAGTCTGCCACCTCTCAAGGCTTTAGATTTCCGTAATCTCCCGGAAATGCCAAAATTTATCA 780
QY 781 ATGCTGCAACTGGATCTCTCTTTCAGGCATTTGCTTCTGTAATGTTTCATGGGTACAA 840
Db 781 ATGCTGCAACTGGATCTCTCTTTCAGGCATTTGCTTCTGTAATGTTTCATGGGTACAA 840
QY 841 CAAAATACAGCAAGGTTTCCATAGATTGTAACCTAATCTCTCATCCAACTCGGTACT 900
Db 841 CAAAATACAGCAAGGTTTCCATAGATTGTAACCTAATCTCTCATCCAACTCGGTACT 900
QY 901 GGGAAAACCTCGTGAAGATCTGTGTTTTTCACTTTCGCTTCAATTATGCGAGTGTCTATCA 960
Db 901 GGGAAAACCTCGTGAAGATCTGTGTTTTTCACTTTCGCTTCAATTATGCGAGTGTCTATCA 960

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Qy 961 TTACCGTGTGCTATGAGTCTGATGATCTTGGCCCTCAAGAGTGTCCGATGCTCTCTGGCT 1020
Db 961 TTACCGTGTGCTATGAGTCTGATGATCTTGGCCCTCAAGAGTGTCCGATGCTCTCTGGCT 1020
Qy 1021 CCAAAGAAAAGGACAGGAATCTTCGAAGGATCACCAGGATGGTCTGGTGGTGGCTG 1080
Db 1021 CCAAAGAAAAGGACAGGAATCTTCGAAGGATCACCAGGATGGTCTGGTGGTGGCTG 1080
Qy 1081 TGTTCATGCTGTCTGAGTCTCCCATTTACATTTAGTTCATCATTTAAAGCCTTGGTTACAA 1140
Db 1081 TGTTCATGCTGTCTGAGTCTCCCATTTACATTTAGTTCATCATTTAAAGCCTTGGTTACAA 1140
Qy 1141 TCCCAGAAACTACCTGTCAGACTGTTTCTTGGCACTTCTGTCATTTGCTCTAGTTTACAA 1200
Db 1141 TCCCAGAAACTACCTGTCAGACTGTTTCTTGGCACTTCTGTCATTTGCTCTAGTTTACAA 1200
Qy 1201 ACAGCTGCTCAACCCAGTCTTTATGCAATTTCTGGATGAAACTTCAAAAGATGCTTCA 1260
Db 1201 ACAGCTGCTCAACCCAGTCTTTATGCAATTTCTGGATGAAACTTCAAAAGATGCTTCA 1260
Qy 1261 GAGAGTCTGTATCCCACTCTTCCCAATTTAGGACAAACAACTCCACTCGAATTCGTC 1320
Db 1261 GAGAGTCTGTATCCCACTCTTCCCAATTTAGGACAAACAACTCCACTCGAATTCGTC 1320
Qy 1321 AGAACCTAGAGACACCCCTCCAGGCCAATACAGTGGATAGAACTAATCATCAGCTAG 1380
Db 1321 AGAACCTAGAGACACCCCTCCAGGCCAATACAGTGGATAGAACTAATCATCAGCTAG 1380
Qy 1381 AAAATCTGGAAGCAGAACTCTCGTTGCCCTAACAGGGTCTCATGCCATTCGACCTT 1440
Db 1381 AAAATCTGGAAGCAGAACTCTCGTTGCCCTAACAGGGTCTCATGCCATTCGACCTT 1440
Qy 1441 CACCAAGCTTAGAAGCCACCATGATGTGGAAGCAGGTGCTTCAAGAAATGTGAGAGG 1500
Db 1441 CACCAAGCTTAGAAGCCACCATGATGTGGAAGCAGGTGCTTCAAGAAATGTGAGAGG 1500
Qy 1501 CTCTAATTTCTAGGAAGTGCCTACTTTTAGTTCATCCACCTCTTCTCTCTGGCCA 1560
Db 1501 CTCTAATTTCTAGGAAGTGCCTACTTTTAGTTCATCCACCTCTTCTCTCTGGCCA 1560
Qy 1561 CTCTGCTCTGACATTTAGAGGACAGCCAAAGTAAAGTGGAGCATTTGGAAAGAAAGAA 1620
Db 1561 CTCTGCTCTGACATTTAGAGGACAGCCAAAGTAAAGTGGAGCATTTGGAAAGAAAGAA 1620
Qy 1621 TATACCAACCGAGAGTCCAGTTTGTGCAAGACACCCAGTGGAAACCAAAACCCATCGT 1680
Db 1621 TATACCAACCGAGAGTCCAGTTTGTGCAAGACACCCAGTGGAAACCAAAACCCATCGT 1680
Qy 1681 GTATGTGAATTTGAAGTTCATATAAAGGTGACCCCTTCTGTCTGTAAGATTTTATTTCAA 1740
Db 1681 GTATGTGAATTTGAAGTTCATATAAAGGTGACCCCTTCTGTCTGTAAGATTTTATTTCAA 1740
Qy 1741 GCAATATTTATGACTCAACAAAGAAACCATCTTTTGTAAAGTTTCAACCTGATGTAACA 1800
Db 1741 GCAATATTTATGACTCAACAAAGAAACCATCTTTTGTAAAGTTTCAACCTGATGTAACA 1800
Qy 1801 CATAAAGTAAATGCTTACCTCTGATCAAAAGCACCTTTGAATGAAAGTCCGAGTCTTTTAA 1860
Db 1801 CATAAAGTAAATGCTTACCTCTGATCAAAAGCACCTTTGAATGAAAGTCCGAGTCTTTTAA 1860
Qy 1861 TGTTTTGCAAGGGATGAATCCATTTATTTAGACTTTTAACTTTTCACTTTAAAT 1920
Db 1861 TGTTTTGCAAGGGATGAATCCATTTATTTAGACTTTTAACTTTTCACTTTAAAT 1920
Qy 1921 TAGCATCTGGCTAAGGCATCATTTTCACTCCATTTCTTGGTTTGTATTTGTTTAAAAA 1980
Db 1921 TAGCATCTGGCTAAGGCATCATTTTCACTCCATTTCTTGGTTTGTATTTGTTTAAAAA 1980
Qy 1981 AATAACATCTCTTTTTCATCTAGTCCATTAATTGCAAGGGAAGAGATTAGCATGAAAGTAA 2040
Db 1981 AATAACATCTCTTTTTCATCTAGTCCATTAATTGCAAGGGAAGAGATTAGCATGAAAGTAA 2040
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Qy 2041 TCTGAAACACAGTCATGTGTCTCANCTGTAGAAAGTTGATTTCTCATGCACTNCAATACTT 2100
Db 2041 TCTGAAACACAGTCATGTGTCTCANCTGTAGAAAGTTGATTTCTCATGCACTNCAATACTT 2100
Qy 2101 CCAAAGAGTCATCATGGGGATTTTTCATTTCTTAGGCTTTTTCAGTGGTTTGTCTCGAAT 2160
Db 2101 CCAAAGAGTCATCATGGGGATTTTTCATTTCTTAGGCTTTTTCAGTGGTTTGTCTCGAAT 2160
Qy 2161 TC 2162
Db 2161 TC 2162

RESULT 4
US-09-355-709C-7
; Sequence 7, Application US/09355709C
; Patent No. 6538120
; GENERAL INFORMATION:
; APPLICANT: Max-Delbruck-Centrum fur Molekulare Medizin
; TITLE OF INVENTION: Genomic Sequences of Human -opioid Receptor Gene ...
; FILE REFERENCE: 101195-15
; CURRENT APPLICATION NUMBER: US/09/355,709C
; CURRENT FILING DATE: 1999-09-27
; PRIOR APPLICATION NUMBER: DE 197 03 925.1
; PRIOR FILING DATE: 1997-02-03
; NUMBER OF SEQ ID NOS: 7
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 7
; LENGTH: 2162
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Human Genomic
; OTHER INFORMATION: Clone
; OTHER INFORMATION: cDNA encoding human opiate receptor
; NAME/KEY: unsure
; LOCATION: (2063)
; OTHER INFORMATION: n = unknown
; NAME/KEY: unsure
; LOCATION: (2091)
; OTHER INFORMATION: n = unknown
; US-09-355-709C-7

Query Match 99.4%; Score 2148.8; DB 3; Length 2162;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 2152; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

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Db 9 GGCCTATAGGCAGAGGAGAAATGTGATGCTCAGTCCGGTCCCTCCCGCTGACGCTCCTC 68
Qy 69 TCTGTCTCAGCAGGAGTCTGTTCTGTAAAGAAACAGCAGGAGCTGTGCGCGCGGAAG 128
Db 69 TCTGTCTCAGCAGGAGTCTGTTCTGTAAAGAAACAGCAGGAGCTGTGCGCGCGGAAG 128
Qy 129 GAACGGCTCAGGGCGTCTGGAACCCGAAAGTCTCGGTGCTCTCGGTACCTCGCACAGC 188
Db 129 GAACGGCTCAGGGCGTCTGGAACCCGAAAGTCTCGGTGCTCTCGGTACCTCGCACAGC 188
Qy 189 GGTGCCCGCCGGCCGCTCAGTACCATGGACAGCAGCGTGCCTCCCAACGAAACCCAGCAAT 248
Db 189 GGTGCCCGCCGGCCGCTCAGTACCATGGACAGCAGCGTGCCTCCCAACGAAACCCAGCAAT 248
Qy 249 TGCATGATGCTTGGCGTACTCAAGTTGCCCGCCAGCACCCAGCCCGGTTCTTGGGTC 308
Db 249 TGCATGATGCTTGGCGTACTCAAGTTGCCCGCCAGCACCCAGCCCGGTTCTTGGGTC 308
Qy 309 AACTTGTCCCACTTAGATGGCAACTGTCCGACCATCGGTCCGAAACCGCAACCAACTG 368
Db 309 AACTTGTCCCACTTAGATGGCAACTGTCCGACCATCGGTCCGAAACCGCAACCAACTG 368
Qy 369 GCGCGGAGAGACAGCTGTGCCCTCCGACCGGAGTCCCTCCATGATCAGGCCATCAGC 428
Db 369 GCGCGGAGAGACAGCTGTGCCCTCCGACCGGAGTCCCTCCATGATCAGGCCATCAGC 428
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Db 369 GCGGGAGAGACAGCCTGTGCTCCGACGGGAGTCCCTCCATGATCATCGGCCATCATCG 428
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Db 429 ATCATGGCCCTCTACTCCATCTGTCGTGTGGGTCTTTCGGAAACTTCTGTGTCATG 488
Qy 489 TATGTGATTTGTAGATACACCAAGATGAGACCTGCGACCAACATCTACACTTTTCAACCTT 548
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Qy 549 GCTCTGGCAGATGCTTTAGCACACAGTACCTCTCCCTTCCAGAGTGTGAATTAACCTAATG 608
Db 549 GCTCTGGCAGATGCTTTAGCACACAGTACCTCTCCCTTCCAGAGTGTGAATTAACCTAATG 608
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Qy 669 ATGTTTCAACAGCATATTTACCCCTCTGCACCATGAGTGTGATCGATACATTTGAGTCTGC 728
Db 669 ATGTTTCAACAGCATATTTACCCCTCTGCACCATGAGTGTGATCGATACATTTGAGTCTGC 728
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Qy 849 AGCAAGGTTCCATAGATTTACACATTAACATTTCTCATCCAACTGGTACTGGGAAAC 908
Db 849 AGCAAGGTTCCATAGATTTACACATTAACATTTCTCATCCAACTGGTACTGGGAAAC 908
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Db 909 CTGCTGAAGATCTGTGTTTTCATCTTCCGCTTCATTTATGCGAGTGTCTATCAATACCGTG 968
Qy 969 TGCTATGGACTGATGATCTTGGGCTCAAGAGTGTGCGATGTCCTGTGGCTCCAAAGAA 1028
Db 969 TGCTATGGACTGATGATCTTGGGCTCAAGAGTGTGCGATGTCCTGTGGCTCCAAAGAA 1028
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Qy 1089 GTCTGTGGACTCCCATTTCAATTTACGTATCAATTAAGCCTTGGTTACAATCCAGAA 1148
Db 1089 GTCTGTGGACTCCCATTTCAATTTACGTATCAATTAAGCCTTGGTTACAATCCAGAA 1148
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Qy 1209 CTCACCCAGTCTTTATGATTTCTGGATGAAACTTCAAGATGCTTCAAGAGTTT 1268
Db 1209 CTCACCCAGTCTTTATGATTTCTGGATGAAACTTCAAGATGCTTCAAGAGTTT 1268
Qy 1269 TGTATCCCACTCTTCCCACTTTGAGCAACAACTCCACTCGAATTTGTCAGAACACT 1328
Db 1269 TGTATCCCACTCTTCCCACTTTGAGCAACAACTCCACTCGAATTTGTCAGAACACT 1328
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Db 1329 AGAGACACCCCTCCAGGCAATACAGTGGATAGAACTTAATCATCAGCTAGAAAATCTG 1388
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Db 1389 GAAGCAGAACTGCTCGTGTGCTTCAACAGGCTCATGCTTCCAGCTTCAACAGC 1448
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Qy 1509 CTCTAGGAAAGTGCTACTTTTTAGGTTCATCCAACTCTTTCTCTCTGCGCACTCTGCTC 1568
Db 1509 CTCTAGGAAAGTGCTACTTTTTAGGTTCATCCAACTCTTTCTCTCTGCGCACTCTGCTC 1568
Qy 1569 TGCACATTTAGAGGGGACAGCCAAAGTAAGTGGAGCATTTTGGAGGAAAGGAATATACCA 1628
Db 1569 TGCACATTTAGAGGGGACAGCCAAAGTAAGTGGAGCATTTTGGAGGAAAGGAATATACCA 1628
Qy 1629 ACCGAGGAGTCCAGTTTGTGGAAGACACCCAGTGGAAACCAAAACCCATCTGTGTATGTGA 1688
Db 1629 ACCGAGGAGTCCAGTTTGTGGAAGACACCCAGTGGAAACCAAAACCCATCTGTGTATGTGA 1688
Qy 1689 ATTGAAGTCAATCAAAAGGTGACCTCTCTGCTGTGAAGATTTTATTTTCAAGCAATAT 1748
Db 1689 ATTGAAGTCAATCAAAAGGTGACCTCTCTGCTGTGAAGATTTTATTTTCAAGCAATAT 1748
Qy 1749 TTATGACCTCAACAAAGAAACCATCTTTTGTGTTAAGTTTCCCGTAGTAACACATAAAGT 1808
Db 1749 TTATGACCTCAACAAAGAAACCATCTTTTGTGTTAAGTTTCCCGTAGTAACACATAAAGT 1808
Qy 1809 AAATGCTACTCTGATCAAAAGCACCTTGAATGGAAGTCCGAGTCTTTTAGTGTGTTTGG 1868
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Db 1869 CAAGGGAATGAATCCATTTATTTTAGACTTTTAACTTCAACTTAAATTTAGCATCT 1928
Qy 1929 GCGTAAAGGATCATTTTCACTCCATTTCTTGGTTTGTATTTGTTTAAAAAATAACAT 1988
Db 1929 GCGTAAAGGATCATTTTCACTCCATTTCTTGGTTTGTATTTGTTTAAAAAATAACAT 1988
Qy 1989 CTCCTTATCTAGTCCATAATTCAGGGAAGAGATTAGCATGAAAGTAACTCTGAAC 2048
Db 1989 CTCCTTATCTAGTCCATAATTCAGGGAAGAGATTAGCATGAAAGTAACTCTGAAC 2048
Qy 2049 ACAGTCATGTGTCACTGTAGAAAGTGTGATCTCATGCACTNCAATTAATCTTCAAGAG 2108
Db 2049 ACAGTCATGTGTCACTGTAGAAAGTGTGATCTCATGCACTNCAATTAATCTTCAAGAG 2108
Qy 2109 TCATCATGGGGATTTTTCATTTCTTAGGCTTTTTCAGTGGTTTGTCTCGAATTC 2162
Db 2109 TCATCATGGGGATTTTTCATTTCTTAGGCTTTTTCAGTGGTTTGTCTCGAATTC 2162

RESULT 5

US-08-188-275A-1
; Sequence 1, Application US/08188275A
; Patent No. 6258556
; GENERAL INFORMATION:
; APPLICANT: Uhl, George R.
; APPLICANT: Wang, Jia-Bei
; APPLICANT: Johnson, Peter S.
; APPLICANT: Persico, Antonio
; TITLE OF INVENTION: cDNA and Genomic Clones Encoding Human
; TITLE OF INVENTION: Mu Opiate Receptor and the Purified Gene Product
; NUMBER OF SEQUENCES: 12
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Birch, Stewart, Kolaasch & Birch
; STREET: P.O. Box 747
; CITY: Falls Church
; STATE: Virginia
; COUNTRY: USA
; ZIP: 22040-3487
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/188,275A
; FILING DATE: 28-JAN-1994

1801 CATAAAGTAAATGCTACCTCTGATCAAGACACCTTGAATGGAGGTCCGAGTCTTTTATG 1860
1801 CATAAAGTAAATGCTACCTCTGATCAAGACACCTTGAATGGAGGTCCGAGTCTTTTATG 1860
1861 TGTTTTGCAAGGGAATGAATCAATTAATCTATTTTAGACTTTTAACTTTCAACTTAAAAAT 1920
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1921 TAGCATCTGGCTAAGGCATCAATTTTCACTCCATTTCTTGGTTTGTATTTGTTTAAAAAA 1980
1921 TAGCATCTGGCTAAGGCATCAATTTTCACTCCATTTCTTGGTTTGTATTTGTTTAAAAAA 1980
1981 AATAACATCTCTTTTCATCTAGCTCCATTAATTCAGAGGAGAGATTAGCATGAAGGTAA 2040
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2041 TCTGAACACAGTCATGTGTCACTCTAGCTCCATTAATTCAGAGGAGAGATTAGCATGAAGGTAA 2100
2041 TCTGAACACAGTCATGTGTCACTCTAGCTCCATTAATTCAGAGGAGAGATTAGCATGAAGGTAA 2098
2101 CCAAGAGTCATCATGGGGATTTTCAATCTTTAGGCTTTTCAAGTGTGTTTCTCTGGAAT 2160
2099 CCAAGAGTCATCATGGGGATTTTCAATCTTTAGGCTTTTCAAGTGTGTTTCTCTGGAAT 2158
2161 TC 2162
2159 TC 2160

RESULT 6
US-08-889-108-7
; Sequence 7, Application US/08889108
; Patent No. 6103492
; GENERAL INFORMATION:
; APPLICANT: Yu, Lei
; TITLE OF INVENTION: Mu Opioid Receptors: Compositions and Methods
; NUMBER OF SEQUENCES: 17
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Arnold, White & Durkee
; STREET: P. O. Box 4433
; CITY: Houston
; STATE: TX
; COUNTRY: USA
; ZIP: 77210-4433
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: IBM PC compatible
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; FILING DATE: US/08/889,108
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/305,518
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Wilson, Mark B.
; REGISTRATION NUMBER: 37,259
; REFERENCE/DOCKET NUMBER: INDA005WIM
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 512-418-3000
; TELEFAX: 512-474-7577
; INFORMATION FOR SEQ ID NO: 7:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1610 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
US-08-889-108-7

Query Match 71.8%; Score 1551.4; DB 3; Length 1610;
Best Local Similarity 99.6%; Pred. No. 0;
Matches 1566; Conservative 0; Mismatches 6; Indels 1; Gaps 1;
QY 9 GGCATATAGCAGAGGAGAAATGTCAAGTCTCAGCTGGTCCCTCCGCTGAGCGTCCCTC 68
DB 36 GGCATATAGCAGAGGAGAAATGTCAAGTCTCAGCTGGTCCCTCCGCTGAGCGTCCCTC 95
QY 69 TCTGTCTCAGCCAGAGACTGGTTTCTGTAAAGAACAGCAGAGCTGTGGCAGCGGCAAG 128
DB 96 TCTGTCTCAGCCAGAGACTGGTTTCTGTAAAGAACAGCAGAGCTGTGGCAGCGGCAAG 155
QY 129 GAAGCGGCTGAGCGCTTGGAAACCGAAAGTCTCGGTCTCTCTGGCTACCTCGCACAGC 188
DB 156 GAAGCGGCTGAGCGCTTGGAAACCGAAAGTCTCGGTCTCTCTGGCTACCTCGCACAGC 215
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DB 216 -GTGCCCGCCCGGCGCTCAGTACCATGGA CAGCAGCGCTGCCCGCCCAAGACGCGCAAT 274
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QY 309 AACTTTGTCCACTTAGATGGCAACCTGTCCGACCCATGCGGTCCGAAACGCAACACCTG 368
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DB 395 GCGGGGAGAGACAGCGCTGTGCCCTCCGACCGGCGAGTCCCTCCATGATCA CGGCCATCAGC 454
QY 429 ATCATGGGCCCTTACTCCATCTGTGTGGTGGGCTCTTCGGAAACCTTCTGTGTCATG 488
DB 455 ATCATGGGCCCTTACTCCATCTGTGTGGTGGGCTCTTCGGAAACCTTCTGTGTCATG 514
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DB 515 TATGTGATTTGTCAGATACACCAAGATGAAGATGCGCACCAACATCTACATTTTCAACCTT 574
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DB 575 GCTCTGGCAGATGCGCTTAGACCAACAGTACCCCTGCCCTTCCAGAGTGTGAATTAACCTTAATG 634
QY 609 GGAACATGGCCATTTTGGAAACCATCTTTCGACAGATAGTATCTCCATAGATTAATTAAC 668
DB 635 GGAACATGGCCATTTTGGAAACCATCTTTCGACAGATAGTATCTCCATAGATTAATTAAC 694
QY 669 ATGTTTCAACAGCATATTTCAACCTCTGACCATGAGTGTGATCGATACATTTGAGTCTGC 728
DB 695 ATGTTTCAACAGCATATTTCAACCTCTGACCATGAGTGTGATCGATACATTTGAGTCTGC 754
QY 729 CACCTCTCAAGGCGCTTAGATTTCCGTACTCTCCCGAAATGCCAAATTTATCAATGTCTGC 788
DB 755 CACCTCTCAAGGCGCTTAGATTTCCGTACTCTCCCGAAATGCCAAATTTATCAATGTCTGC 814
QY 789 AACTGGATCTCTCTTTCAGCCATTTGGTCTTCTCTGTAATTTTATGGCTACCAAAATAC 848
DB 815 AACTGGATCTCTCTTTCAGCCATTTGGTCTTCTCTGTAATTTTATGGCTACCAAAATAC 874
QY 849 AGGCAAGGTTCCATAGATTGTACACTTAACATTTCTCTCCCAACCTGGTACTGGGAAAC 908
DB 875 AGGCAAGGTTCCATAGATTGTACACTTAACATTTCTCTCCCAACCTGGTACTGGGAAAC 934
QY 909 CTCTGTAAGATCTGTGTTTTCATCTTTCGCTTTTCAATATGCGAGTGTCTATTCATCCGCTG 968
DB 935 CTCTGTAAGATCTGTGTTTTCATCTTTCGCTTTTCAATATGCGAGTGTCTATTCATCCGCTG 994
QY 969 TCGTATGGAATGATGATCTTGGCGCTCAAGAGTGTCCGATGCTCTCTGGCTCCAAAGAA 1028
DB 995 TCGTATGGAATGATGATCTTGGCGCTCAAGAGTGTCCGATGCTCTCTGGCTCCAAAGAA 1054
QY 1029 AAGGACAGGAATCTTTCGAAGGATCACCAGGATGGTGTGGTGTGGTGTGTGTTTCATC 1088

QY 1233 CTGGATGAACCTTCAACGATGCTTCAGAGAGTTCTGTATCCAACTCTTCCAACTT 1292
Db 1021 CTGGATGAACCTTCAACGATGCTTCAGAGAGTTCTGTATCCAACTCTTCCAACTT 1080
QY 1293 GAGCAACAACTCCCACTCGAATTCGTGAGAACACTAGAGACCACTCCCTCCACGGCCAAT 1352
Db 1081 GAGCAACAACTCCCACTCGAATTCGTGAGAACACTAGAGACCACTCCCTCCACGGCCAAT 1140
QY 1353 ACAGTGATAGAACTAATCATCATAGCTAGAGAAATCTGGAAGCAGAAATCTGCTCGTTGCC 1412
Db 1141 ACAGTGATAGAACTAATCATCATAGCTAGAGAAATCTGGAAGCAGAAATCTGCTCGTTGCC 1200
QY 1413 TAA 1415
Db 1201 TAA 1203

RESULT 9
US-09-214-904-1
; Sequence 1, Application US/09214904
; Patent No. 6632977
; GENERAL INFORMATION:
; APPLICANT: TRANSGENIC ANIMAL IN WHICH THE EXPRESSION
; TITLE OF INVENTION: OF OPIATE RECEPTORS IS MODIFIED
; NUMBER OF SEQUENCES: 6
; COMPUTER: IBM PC compatible
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25 (BPO)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/214,904
; FILING DATE:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/FR97/01282
; FILING DATE:
; APPLICATION NUMBER: FR 96.08810
; FILING DATE: 15-JUL-1996
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2229 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 256..1449
; US-09-214-904-1

Query Match 54.5%; Score 1177.4; DB 3; Length 2229;
Best Local Similarity 77.8%; Pred. No. 4.1e-300;
Matches 1542; Conservative 0; Mismatches 411; Indels 28; Gaps 9;

QY 9 GGCTATAGGACAGAGAGATGTCAGATGCTCAGCTCGGTCCCTCCCGCTGACGCTCCTC 68
Db 52 GGATACAAGCAGAGAGAGATATCGAGCGCTCAG-ACGTTCCATTTCTGCCTGCCGCTCTC 110
QY 69 TCTGTCTCAGCCAGGATGTTTCTGTAAGAAACAGCAGGAG-CTGTGGCAGCGCGGAAA 127
Db 111 TCTGGTTCCTAGGGCTTGTCTGTAAGAAACTGACGGAGCCTAGGGCAGCTGTGAGA 170
QY 128 GGAAGCGCTGAGCGCTTGGAAACCGAAAGTCTCGGTGCTCTCGGTCTACCTCGCACAG 187
Db 171 GGAAGAGCTGGGGCGCTGGAAACCGAACHACTCTTGAGTCTCTCAGTTACAGCCTACC 230
QY 188 CGGTGCCCGCCGCGCTCAGTACATGGAACAGAGCGCTGCCCGCCACGAAACGCGCGAA 247
Db 231 GAGTCCGAGCAAGCAATTCAGAACCATGGAACAGCAGCGCGCCGCGCGGAAACATCAGCGA 290
QY 248 TTGCACTGATGCTTGGCGTACTCAAGTTGCCCCCAGCAGCCCGGTTCTTGGGT 307

Db 291 CTGCTCTGACCCCTTAGCTCTCTGCAAGTTGGTCCCAGCA-----CCTGGCTCTGGCT 344
QY 308 CAACTTGTCCCACTTAGATGGCAACCTGTCCGACCATCGGTCCGAAACCGACCAACCT 367
Db 345 CAACTTGTCCCACTTAGATGGCAACCGATCCGACCATCGGTCCGAAACCGACCGGGCT 404
QY 368 GGGCGGAGAGAGACAGCTGTGCCCTCCGACCGGACGTCCCTCCATGATACAGGCCATCAC 427
Db 405 TGGCGGAGGACACAGCTGTGCCCTCAGACCGGACGCTTCCATGGTCACAGCCATCAC 464
QY 428 GATCATGGCCCTTACTCCATCGTGTGGTGGGCTCTTCGGAACCTTCCTGGTTCAT 487
Db 465 CATCATGGCCCTCTATTCTATCGTGTGTAGTGGGCTCTTTTGGAACTTCCTGGTTCAT 524
QY 488 GTATGTGATTGTTCAGATACACCAAGATGAAGACTGCCACCAACATCTACATTTTCAACCT 547
Db 525 GTATGTGATTGTGAAGATATACCAAAATGAAGACTGCCACCAACATCTACATTTTCAACCT 584
QY 548 TGCTCTGGCAGATGCTTACGCCACCACTACCTTCCAGAGTGTGAATTAACCTTAAT 607
Db 585 TGCTCTGGCAGATGCTTACGCCACCTAGCAGCGTCCCTTTTCAGAGTGTAACTACCTGAT 644
QY 608 GGGAAACATGGCCATTTGGAAACCATCTTTTGAAGATAGTATCTCCATAGATTACTATAA 667
Db 645 GGGAACTGGCCCTTTTGGAAACATCTCTCTGCAAGATCGTATCTCAATAGACTACTACAA 704
QY 668 CATGTTCCAGCATATTCACCTCTGCACCATGAGTGTGTGATCGATACATTTGCAGTCTG 727
Db 705 CATGTTCCAGCATATCTTCCACCTCTGCACCATGAGTGTGATCGATACATTTGCAGTCTG 764
QY 728 CCACCTCTCAAGGCTTACAGATTTCCGTACTCTCCCGAAATGCCAAATTAATCAATGTCTG 787
Db 765 CCACCTCTCAAGGCTTACAGATTTCCGTACTCTCCCGAAATGCCAAATTTGCAATGTCTG 824
QY 788 CAACTGGATCTCTCTTCAGCCATTTGGTCTTCTGTAAATGTTTCATGGCTACAACAAATA 847
Db 825 CAACTGGATCTCTCTTCAGCCATTTGGTCTTCCCGCTAAATGTTTCATGGCAACCAACAAATA 884
QY 848 CAGGCAAGTTCATAGATTTGATACATTAACATTTCTCATCCAACTGGTACTGGGAAA 907
Db 885 CAGGCAAGGCTCCATAGATTTGACCCCTCATCTTCTCATCCCACTGGTACTGGGAGAA 944
QY 908 CCTCGTGAAGATCTGTGTTTTCATCTTTCGCTTTCATTTGCCAGTGTCTCATCATACCGT 967
Db 945 CCTGCTCAAAATCTGTGCTTTCATCTTTCGCTTTCATCATCGGTCTCTCATCATCTGT 1004
QY 968 GTGCTATGGAATGATCTTGGCCCTCAAGAGTGTCCGATGCTCTCTGGCTCCAAAGA 1027
Db 1005 GTGTTATGGAATGATCTTACGACTCAAGAGTGTCCGATGCTGTGGGCTCCAAAGA 1064
QY 1028 AAAGGACAGGAATCTTGAAGAGATCACCAGATGGTGTGGTGGTGGTGGTGGTGGTGGT 1087
Db 1065 AAAGGACAGGAATCTTGGCAGGATCACCAGGATGGTGGTGGTGGTGGTGGTGGTGGT 1124
QY 1088 CGTCTGCTGACCTCCCATTCACATTTACGTCACTATTAAGAGCTTGGTGTACAATCCCAGA 1147
Db 1125 TGTCTGCTGACCTCCCATTCACATCTATGTCACTCAAGAGCTGATCAGATTCCAGA 1184
QY 1148 AACTAGCTTCCAGACTGTTTCTTGGCACTTCTGCAATGCTCTAGGTTTACACAAACAGCTG 1207
Db 1185 AACCACTTTCAGACTGTTTCTTGGCACTTCTGCAATGCTCTGAGTTTACACAAACAGCTG 1244
QY 1208 CCTCAACCCAGTCTTTCATGCTTTCGATGAAACCTTCAACGATGCTTTCAGAGATT 1267
Db 1245 CCTGAACCCAGTCTTTCATGCTTTCGATGAAACCTTCAACGATGCTTTCAGAGATT 1304
QY 1268 CTGTATCCCAACCTTTCACCAATTTGAGCAACAAACTCCACCTCGAATTCGTTCAGAACAC 1327
Db 1305 CTGATCCCAACCTTTCACCAATTCGAAACAAACTCTGCTCGAATTCGTTCAGAACAC 1364
QY 1328 TAGAGACCACTCTCCACGGCCAAATACAGTGGATAGAACTTAATCATCAGCTAGAAATCT 1387

Db 1365 TAGGGAACACCCCTCCACGGCTAATACAGTGGATCGAACTAACCCACGACTAGAAATCT 1424
Qy 1388 GGAAGCAGAAACTGCTCCGTTGCCCTAAACAGGCTCTCATGCGCAATTCGACCTTACCAG 1447
Db 1425 GGAAGCAGAAACTGCTCCATTGCTTAACTGGGTCCACGCCATCCAGACCCCTCGCTAAA 1484
Qy 1448 CTTAGAAGCCACCATGTATGTGGAAGCAGTTGCTTCAAGAATGTGTAGGAGCTCTAAT 1507
Db 1485 CTTAGAAGCTGCCATCTACTTGGAAATCAGTTGCTGTCTGAGGGTTGTGGAGGCTCTGT 1544
Qy 1508 TCTCTAGGAAGTGCCTACTTTTAGGTCTATCCAACTCTTTCTCTCTGCGCCACTGTCT 1567
Db 1545 TTCTCGAAAGACATCTGATCTCTGCATCATTTCAAAGTCTATCTCTCTGCTGCTATTCA-CG 1603
Qy 1568 CTGCACATTTAGAGGGACAGCCAAAGTAAGTGGAGCAATTTGGAAGAAAGGAATATACCA 1627
Db 1604 CTACACGTTCAGAGACACTC---AGACTGTGTCAAGCACTCAGAAGGAAGAGACTGCAGGC 1660
Qy 1628 CACCGAGGAGTCCAGTT--TGTGCAAGACACCCAGTGGAAACCAAAACCCCATCGTGTATG 1685
Db 1661 CACTACTGAATCCAGCTCATGTACAGAAACATCCAATGGACCAATACTCTGTGGTATG 1720
Qy 1686 TGAATTTGAAGTCACTATAAAGGTGACCTTCTGTCTGT- AAGATTTTATTTTCAAGCAA 1744
Db 1721 TGAATTTGTGATCAACATAGAAGTGAACCTTCCCTATGTGGAATTTTAAATTTCAAGGAA 1780
Qy 1745 ATATTTATGACCTCAACAAAGAAAGACCA----TCCTTTGTTAAAGTTACCGTAGTAACA 1800
Db 1781 ATACTTATGATCTCATCAAGGGGAAATAGATGTCATCTTGTAAATTTCACTGTAGTGTG 1840
Qy 1801 CATAAAGTAAATGCTACCTCTCATCAAGACACCTTGAATGGAAGGTCCGAGTCTTTTATG 1860
Db 1841 CATAAAGGAAGACTACCTCTGACCTCTAGCCCAAGTCAACCTCTATGGAAAGTTCATAG 1900
Qy 1861 TGTTTTTGAAGGGAATGAATCCATTATTTCTATTTTAGACTTTTAACTTTCAACTTAAAAAT 1920
Db 1901 GGAATATGTGAGGAA-----AATGTGCTTCCAAATTAATTTTCACTTTATGT 1951
Qy 1921 TAGCATCTGGCTTAAGGCATCATTTTCACTTCATTTTCTTGGTTTGTATTTGTTAAAAA 1980
Db 1952 TATAGTCTAGTTAAGACATCAGGGGCATCTCTGTTTCTTGGTTTGTATTTGTTGAAGA 2011
Qy 1981 A 1981
Db 2012 A 2012

RESULT 10
US-09-826-509-546
; Sequence 546, Application US/09826509
; Patent No. 6806054
; GENERAL INFORMATION:
; APPLICANT: Lehmann-Bruinsma, Karin
; APPLICANT: Liaw, Chen W.
; APPLICANT: Lin, I-Lin
; TITLE OF INVENTION: No. 6806054-Endogenous, Constitutively Activated Known G
; FILE REFERENCE: AREN-207
; CURRENT APPLICATION NUMBER: US/09/826,509
; CURRENT FILING DATE: 2001-04-05
; PRIOR APPLICATION NUMBER: 60/195,747
; PRIOR FILING DATE: 2000-04-07
; PRIOR APPLICATION NUMBER: 09/170,496
; PRIOR FILING DATE: 1998-10-13
; NUMBER OF SEQ ID NOS: 589
; SOFTWARE: PatentIn Version 2.1
; SEQ ID NO 546
; LENGTH: 1182
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-826-509-546

Query Match 53.8%; Score 1163.6; DB 3; Length 1182;

Best Local Similarity 99.7%; Pred. No. 1.3e-296;
Matches 1166; Conservative 0; Mismatches 4; Indels 0; Gaps 0;
Qy 213 ATGGACAGAGCGCTGCCCCACGAAACGCGAGCAATTTGACACTGATGCGCTTTGGCGTACTCA 272
Db 1 ATGGACAGAGCGCTGCCCCACGAAACGCGAGCAATTTGACACTGATGCGCTTTGGCGTACTCA 60
Qy 273 AGTTCGCCCCACAGCACCCAGCCCCGGTTCTCGGGTCAACTTGTCCACATTTAGATGGCAAC 332
Db 61 AGTTCGCCCCACAGCACCCAGCCCCGGTTCTCGGGTCAACTTGTCCACATTTAGATGGCAAC 120
Qy 333 CTGTCCGACCCATGCGGTCCGAAACGCGACCAACCTTGGCGGAGAGACAGCCCTGTGCCCT 392
Db 121 CTGTCCGACCCATGCGGTCCGAAACGCGACCAACCTTGGCGGAGAGACAGCCCTGTGCCCT 180
Qy 393 CCGACGGGAGTCCCTCATGATCAGGCCATCAGATCATGCGCCCTCTACTCCATCGTG 452
Db 181 CCGACGGGAGTCCCTCATGATCAGGCCATCAGGCCATCAGGCCCTCTACTCCATCGTG 240
Qy 453 TSCGTGTGGGGCTCTTCGGAACCTTCTGGTCAATGATGATGATGATGATGATGATGATGATGAT 512
Db 241 TSCGTGTGGGGCTCTTCGGAACCTTCTGGTCAATGATGATGATGATGATGATGATGATGATGAT 300
Qy 513 ATGAAGACTGCCCAACCAACATCTACATTTTCAACCTTGTCTGGCAGATGCTTAGCCACC 572
Db 301 ATGAAGACTGCCCAACCAACATCTACATTTTCAACCTTGTCTGGCAGATGCTTAGCCACC 360
Qy 573 AGTACCTGCCCTTCCAGAGTGAATTTACCTAATTTGGGAAACATGCGCAATTTGGAACCATC 632
Db 361 AGTACCTGCCCTTCCAGAGTGAATTTACCTAATTTGGGAAACATGCGCAATTTGGAACCATC 420
Qy 633 CTTTCCAGATAGTATCTCCATAGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 692
Db 421 CTTTCCAGATAGTATCTCCATAGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 480
Qy 693 TGCACCATGAGTGTGATCGATACATTTGCAGTCTGCGACCTGTCAAGCCCTTAGATTTTC 752
Db 481 TGCACCATGAGTGTGATCGATACATTTGCAGTCTGCGACCTGTCAAGCCCTTAGATTTTC 540
Qy 753 CGTACTCCCGAAATGCGAAATTTATCAATGTCGCAACTGGATGCTCTCTTTCAGGCATTT 812
Db 541 CGTACTCCCGAAATGCGAAATTTATCAATGTCGCAACTGGATGCTCTCTTTCAGGCATTT 600
Qy 813 GGTCTTCTGTAATGTCATGCTACACAAATAACAGCAAGGTTTCCATAGATTGTACA 872
Db 601 GGTCTTCTGTAATGTCATGCTACACAAATAACAGCAAGGTTTCCATAGATTGTACA 660
Qy 873 CTAAACATTTCTCATCCAAACCTGGTACTGGGAAAACTCGTGAAGATCTGTGTTTTTCATC 932
Db 661 CTAAACATTTCTCATCCAAACCTGGTACTGGGAAAACTCGTGAAGATCTGTGTTTTTCATC 720
Qy 933 TTGCGCTTCATTTATGCGAGTGTCTCATCTACCGTGTGCTATGGAATGATGATGATGATGATGAT 992
Db 721 TTGCGCTTCATTTATGCGAGTGTCTCATCTATACCGTGTGCTATGGAATGATGATGATGATGAT 780
Qy 993 CTCAGAGTGTCCGATGCTCTCTGCTCCAAAGAAAAAGGACAGGAATCTTCGAAGGATC 1052
Db 781 CTCAGAGTGTCCGATGCTCTCTGCTCCAAAGAAAAAGGACAGGAATCTTCGAAGGATC 840
Qy 1053 ACCAGGATGCTGCTGGTGGTGTGTTTCATCGTCTGCTGGAATCCCATTTCAATTT 1112
Db 841 AAGAGGATGCTGCTGGTGGTGTGTTTCATCGTCTGCTGGAATCCCATTTCAATTT 900
Qy 1113 TACGTCATCAATTAAGCCCTTGGTTTCAATCCAGAAAACTACGTTCCAGACTGTTTCTTGG 1172
Db 901 TACGTCATCAATTAAGCCCTTGGTTTCAATCCAGAAAACTACGTTCCAGACTGTTTCTTGG 960
Qy 1173 CACTTCTGCAATGCTAGGTTTACAAACAGCTGCTCAACCCAGTCTCTTATGATTTT 1232
Db 961 CACTTCTGCAATGCTAGGTTTACAAACAGCTGCTCAACCCAGTCTCTTATGATTTT 1020
Qy 1233 CTGGATGAAAACTTCAAAACGATGCTTTCAGAGATGTTCTGTATCCCAACCTCTTCCAACTTT 1292

Db 1021 CTGGATGAAATCTCAACGATGCTTCAGAGAGTTCTGTATCCCAACCTCTTCCAACTT 1080

Qy 1293 GAGCAACAACTCCACTCGAATTCGTTCAGAACACTAGAGACCACTCCCGGCAAT 1352

Db 1081 GAGCAACAACTCCACTCGAATTCGTTCAGAACACTAGAGACCACTCCCGGCAAT 1140

Qy 1353 ACAGTGATAGAACTAATCATCAGCTAGAA 1382

Db 1141 ACAGTGATAGAACTAATCATCAGCTAGTA 1170

RESULT 11

US-08-387-707-15
; Sequence 15, Application US/08387707
; Patent No. 6265563
; GENERAL INFORMATION:
; APPLICANT: EVANS, CHRISTOPHER J.
; APPLICANT: KEITH, DUANE E.
; TITLE OF INVENTION: OPIOID RECEPTOR GENES
; NUMBER OF SEQUENCES: 18
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MORRISON & FOERSTER
; STREET: 2000 Pennsylvania Avenue, N.W. Suite 5500
; CITY: Washington
; STATE: DC
; COUNTRY: USA
; ZIP: 20006-1888
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/387,707
; FILING DATE: 10-SEP-1995
; CLASSIFICATION: 536
; ATTORNEY/AGENT INFORMATION:
; NAME: MURASHIGE, KATE H.
; REGISTRATION NUMBER: 29,959
; REFERENCE/DOCKET NUMBER: 22000-20526.20
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (202) 887-1500
; TELEFAX: (202) 887-0763
; INFORMATION FOR SEQ ID NO: 15:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1981 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear

US-08-387-707-15

Query Match 53.1%; Score 1147; DB 3; Length 1981;
Best Local Similarity 77.5%; Pred. No. 4.1e-292;
Matches 1511; Conservative 0; Mismatches 411; Indels 28; Gaps 9;

Qy 9 GGCTATAGCGAGAGAGATGTCAGATGCTCAGTCCGTCGGTCCCTCCGCTCAGCGCTCCTC 68

Db 52 GGATACAAGCAGAGAGAGATATCGAGCGCTCAG-ACGTTCCATTTCTGCTCCGCTCTTC 110

Qy 69 TCTGCTCAGCGAGAGCTGGTTCTGTAAAGAAACAGCAGGAG-CTGTGGCGACGCGGAAA 127

Db 111 TCTGGTTCCATAGGGCTTGTCCTGTAAAGAACTGACGGAGCTTAGGGCAGCTGTGAGA 170

Qy 128 GGAAGCGGCTGAGGCGCTTGGAAACCGGAAAGTCTCGGTGCTCTCGGTACTCTCGCACAG 187

Db 171 GGAAGAGCTGGGGCGCTGGAAACCGGAAACCTCTTGAGTGCTCTCAGTTACAGNCTACC 230

Qy 188 CGGTGCGCGCGCGCTGAGTACCATGAGCAGCGCTGCCCGCCAGCAACCGGCAAA 247

Db 231 GAGTCCGCGAGGAAGCATTCAGAACCATGGACAGCAGCGCGCGCCGAGGAACATCAGCGA 290

Qy 248 TTGCACTGATCCCTGGGGTACTCAAGTTGCCCGCCAGCACCCAGCGCGCTCTCGGT 307

Db 291 CTGCTCGAGCCCTTAGCTCCCTGCAAGTTGCTCCCCAGCA-----CCTGGCTCTGGCT 344

Qy 308 CAACTTGTCCCACTTAGATGGCAACCTGTCCGACCCATGCGGTCCGAAACCGCAACACT 367

Db 345 CAACTTGTCCCACTTGTATGGAAACCCAGTCCGACCCATGCGGTCTTAAACCGAGGGCT 404

Qy 368 GGGCGGAGAGACAGCTGTGCCCTCCGACCGGAGTCCCTCCATGATCAGGGCCATCAC 427

Db 405 TGGCGGGAACGACAGCTGTGCCCTCAGACCGGAGCCCTTCCATGGTTCAGCGCATCAC 464

Qy 428 GATCATGGCCCTCTACTCCATCGTGGCGTGGGGCTCTTCGGAACCTTCTCTGGTTCAT 487

Db 465 CATCATGGCCCTCTATCTATCGTGTGTGTAGTGGGCTCTTTTGGAAACCTCTCTGGTTCAT 524

Qy 488 GTATGTGATTGTTCAGATACACCAAGATGAAGACTGCCACCACCAACATCTACATTTTCAACCT 547

Db 525 GTATGTGATTGTAAAGATATACCAAAATGAAGACTGCCACCACCAACATCTACATTTTCAACCT 584

Qy 548 TGCTCTGGCAGATGCTTTAGCCACCAAGTACCTTCCGCGCTCCAGAGTGTGAATTTACCTAAT 607

Db 585 TGCTCTGGCAGATGCTTTAGCCACTAGCAGCTGCCCTTTTCCAGAGTGTAACTACCTGAT 644

Qy 608 GGGAAACATGGCCATTTGGAAACCATCTTTTGCAGAGATAGTCTTCCATAGATTACTATAA 667

Db 645 GGGAACTGGCCCTTTTGGAAACATCTCTGCAAGATCGTGATCTCAATAGACTACTACAA 704

Qy 668 CATGTTCCACAGCATATTACCCCTCTGCACCATGAGTGTGTGATCGATACATTTGCACTG 727

Db 705 CATGTTCCACAGTATCTTACCCCTCTGCACCATGAGTGTAGACCGCTTACATTTGCGGCTG 764

Qy 728 CCACCTCTCAAGGCTTTAGATTTCGTACTTCCCGAAATGCCAAAATTTATCAATTTGCTG 787

Db 765 CCACCCGGTCAAGGCTTGGATTTCCGTATCCCGGAAATGCCAAAATTTGTCATTTGCTG 824

Qy 788 CAACTGGATCTCTCTTTCAGCCATTTGCTTCTGTAAATGTTGATGCTTACCAAAATA 847

Db 825 CAACTGGATCTCTCTTTCGCCATTTGCTTCCCGGTAATGTTTCATGGCAACCAAAATA 884

Qy 848 CAGCAAGGTTCCATAGATTGTACACTAACATTTCTCATCCAAACCTGGTACTGGGAAA 907

Db 885 CAGCAGGGTCCATAGATTGCACCTTCACTGTTCTCTCATCCACATGGTACTGGGAAA 944

Qy 908 CCTCGTGAAGATCTGTGTTTTCATTTCTTCCGCTTCAATTTGCGAGTGTCTCATTTACCGT 967

Db 945 CCTGCTCAAAATCTGTGTTCTTCTTCCGCTTCACTATGCGGCGCTCATCATCACTGT 1004

Qy 968 GTGCTATGGAATGATCTTGGCCCTCAGAGTGTCCGATGCTCTCTGGCTCCAAAGA 1027

Db 1005 GTGTTATGGACTGATGATCTTACAGCTCAAGAGTGTCCGATGCTGTGGGCTCCAAAGA 1064

Qy 1028 AAAGGACAGGAATCTTCGAAGGATCACAGAGTGGTGTGCTGGTGGTGGTGTGTTTCAT 1087

Db 1065 AAAGGACAGGAACCTGGCGAGGATCACCCGGATGGTGTGCTGGTGGTGTGTTTAT 1124

Qy 1088 CGTCTGTGGAATCCCAATTCACATTTACGTCAATTTAAAGCTTGGTTTACAAATCCGAGA 1147

Db 1125 TGTCTGTGGACCCCATTCACATCTATGTTCATCAAAAGCACTGATCAGGATTCGAGA 1184

Qy 1148 AACTAGCTTCAGACTGTTTCTGGCACTTCTGCAATTTGCTCTAGGTTTACAAACAGCTG 1207

Db 1185 AACCACTTTCAGACTGTTTCTGGCACTTCTGCAATTTGCTGATTTGGTTTACAAACAGCTG 1244

Qy 1208 CCTCAACCCAGTCCCTTTATGCAATTTCTGGATGAAACTTCAAGCACTGCTTTCAGAGATT 1267

Db 1245 CCTGAAACCCAGTCTTTTATGGTTTCTTGGATGAAACTTCAACGATGTTTTCAGAGATT 1304

Qy 1268 CTGTATCCCAACCTCTTCCAAACATTTAGCAACCAAACTTCCACTCGAATTCGTCAGAACAC 1327

Db 1305 CTGATCCCAACCTCTTCCCAACATTCGAACAGCAAAACTCTGTCTCGAATCCGTCGCAACAC 1364

Qy 1328 TAGAGACACCCCTTCCAGGCGCAATCAGTGGATGAGAACTAATCATCAGCTAGAAAATCT 1387

Db 1365 TAGGGAAACACCCCTCCAGCGGCTAATACAGTGGATCGAACTAACCCAGCTAGAAAATCT 1424

1388 GGAAGCAGAACTGCTCCGTTGCCCTAAACAGGGTCTCATGCCATCCGACCTTCACCAAG 1447
1425 GGAAGCAGAACTGCTCCATTCCTTAACTGGGTCCACGCCATCCAGACCTTCGTATAA 1484
1448 CTTAGAGGCACCATGATGTGGAAGCAGGTGCTTCAAGAAATGTGTAGGAGCTCTAAT 1507
1485 CTTAGAGGCTGCCATCTACTTGAATCAGTTGCTCAGGGTTCGTGGGAGGCTCTGCT 1544
1508 TCTCTAGGAAAGTGCCTACTTTTAGTCAATCCAACTCTTCTCTCTGCGCACTCTGCT 1567
1545 TTCTCGGAAAGCATCTGATCTCTGATCAATTCAAAGTCAATCTCTCTGCTGCTATTTC-ACG 1603
1568 CTCACATTAGAGGAGCAGCAAAAGTAAAGTGAGCATTTGGAAGGAAAGGAATATACCA 1627
1604 CTAACGTCAGACACA---CTCAGACTGTGTCAAGCACTCAGAAAGGAGAGACTCGAGGC 1660
1628 CACGAGGAGTCCAGTT--TGTGCAAGACACCCAGTGGAAACCAAAACCCCATCGTGGTATG 1685
1661 CACTACTGAATCCAGCTCATGTACAGAAACATCCAATGGACACACATACTCTGTGGTATG 1720
1686 TGAATTTGAAGTCAATATAAAGTGACCTTCTGTCTGT-AGATTTTATTTTCAAGCAA 1744
1721 TGAATTTGTGATCAACATAGAAAGTGACCTTCCCTATGTGGAATTTTAAATTTCAAGGAA 1780
1745 ATATTTATGACCTCAACAAGAGAACCA---TCTTTTGTAAAGTTTCAACCGTAGTAACA 1800
1781 ATACTTATGATCTCAAGAGGAAATAGATGTCACTTGTAAATTTCACTGTAGTATG 1840
1801 CATAAAGTAAATGCTACTCTGATCAAGCACCTTGAATGGAAGTCCGAGTCTTTTTTAG 1860
1841 CATAAAGGAAAGTACTCTGACCTTAGCCAGTCAACCTCTATGGAAGTTCCATAG 1900
1861 TGTTTTGAAGGAAATGAATCAATTAATTTTAGACTTTTAACTTTCAACTTAAAT 1920
1901 GGAATATGTGAGGAA-----AATGTTGCTTCCAAATTTAAATTTTCACTTTATGT 1951
1921 TAGCATCTGGCTAAGGCATCATTTTCACT 1950
1952 TATAGTCTAGTTAAGACATCAGGGGCATCT 1981

RESULT 12

US-08-405-271A-15
; Sequence 15, Application US/08405271A
; Patent No. 6432652
; GENERAL INFORMATION:
; APPLICANT: EVANS, CHRISTOPHER J.
; APPLICANT: KEITH, DUANE E.
; TITLE OF INVENTION: OPIOID RECEPTOR GENES
; NUMBER OF SEQUENCES: 25
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MORRISON & FORSTER
; STREET: 2000 PENNSYLVANIA AVENUE, NW, Suite 5500
; CITY: WASHINGTON
; STATE: DC
; COUNTRY: USA
; ZIP: 20006-1888
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent in Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/405,271A
; FILING DATE: 14-MAR-1995
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: MURASHIGE, KATE H.
; REGISTRATION NUMBER: 29,959
; REFERENCE/DOCKET NUMBER: 22000-20526.22
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (202) 887-1500

; TELEFAX: (202) 887-0763
; TELEX: 90-4030 MRSNFOERSWSH
; INFORMATION FOR SEQ ID NO: 15:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1981 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
US-08-405-271A-15

Query Match 53.1%; Score 1147; DB 3; Length 1981;
Best Local Similarity 77.5%; Pred. No. 4.1e-292;
Matches 1511; Conservative 0; Mismatches 411; Indels 26; Gaps 9;

QY 9 GCCTATAGCCAGAGAGATGTCAGATGCTCAGCTCGGTCCCTCGCTCGCTGAGCTCCTC 68
DB 52 GGATACAAAGCAGAGAGAATATCGGACGCTCAG-ACGTTCCATTTCTGCTCGCGTCTTC 110
QY 69 TCTGTCTCAGCCAGGACTGGTTTCTGTAAAGAAACAGCAGGAG-CTGTGGCAGCGCGAAA 127
DB 111 TCTGGTTCACCTAGGGCTTGTCTTGTAAAGAACTGACGGAGCCTAGGGCAGCTGTGAGA 170
QY 128 GGAACGGCTGAGGCGCTTGGAAACCCGAAAGTCTCGGTGCTCTCGGTCTCTCGGCACAG 187
DB 171 GGAAGAGGCTGGGGCGCTGGAAACCCGAAACACTCTTGAGTGTCTCTCAGTTACAGNCTACC 230
QY 188 CGGTGCCCGCCGCGCTCAGTACCATGGACAGCAGCGCTGCCCCACGACGCCAGCAA 247
DB 231 GAGTCCGAGGAAGCATTCAGAACCATGGACAGCAGCGCGCCGCCAGGGAAACATCAGCGA 290
QY 248 TTGCACTGATGCTTGGGGTACTCAAGTTGCCCGCCAGCACCGACCCCGGTTCTCTGGGT 307
DB 291 CTGCTCTGACCCCTTAGCTCTGCAAGTTGCTCCCGACGA-----CCTGGGTCTCTGGCT 344
QY 308 CAACCTTGTCCTCATTTAGATGGCAACTGTCCGACCCATCGGTGCGAACCGCACCAACT 367
DB 345 CAACCTTGTCCTCATTTGATGGAAACAGTCCGACCCATCGGTCTCTTAACCCGACGGGCT 404
QY 368 GGGCGGAGAGACAGCTGTGCCCTCCGACCGGAGTCCCTCCATGATCAGCGCCATCAC 427
DB 405 TGGCGGGAACGACAGCCTGTGCCCTCAGACCGGAGCGCTTCCATGGTTCAGGCCATCAC 464
QY 428 GATCATGGCCCTCTACTCATCTGCTGGTGTGGGGTCTTTCGGAAACCTTCTCTGGTCTAT 487
DB 465 CATCATGGCCCTCTATTTCTATCGTGTGTGTAGTGGGCTCTTTGGAAACTTCTCTGGTCTAT 524
QY 488 GTATGTGATTTGTCAGATACACCAAGATGAAGCTGCCACCAACATCTACATTTTCAACCT 547
DB 525 GTATGTGATTTGTAAGATATACCAAAATGAAGACTGCCACCAACATCTACATTTTCAACCT 584
QY 548 TGCTCTGGCAGATGCTTAGCCACAGTACCCCTGCGCTTCCAGAGTGTGAATTACCTAAT 607
DB 585 TGCTCTGGCAGATGCTTAGCCACAGTACCGCTGCGCTTCCAGAGTGTGAATTACCTAAT 644
QY 608 GGGAAACATGGCCATTTGGAACCATCTTTCGAAGATAGTGTCTCCATAGATTTACTATAA 667
DB 645 GGGAAACATGGCCCTTTGGAACATCTCTGCAAGATCGTGATCTCAATAGACTACTACAA 704
QY 668 CATGTTCCACGACATATTACCCCTCTGCAACCATGATGTTGATCGATACATTTGCAAGTCTG 727
DB 705 CATGTTCCACGATATCTTTCAGCCCTCTGCAACCATGATGTAGACCGCTACATTTGCGGTCTG 764
QY 728 CCACCTGTCAAGGCTTAGATTTTCGTTACTCCCGAAATGCCAAATTTATCAATGTCTG 787
DB 765 CCACCGGTCAAGGCTTGGATTTTCGTTACTCCCGAAATGCCAAATTTGTCAATGTCTG 824
QY 788 CAATGGATCTCTCTTTCAGCCATTTGGTCTTCTCTTAATGTTTCATGGCTTCAACAAAAATA 847
DB 825 CAATGGATCTCTCTTTCGCAATTTGGTCTGCGCGTATGTTTCATGGCACAACCAAAAAATA 884
QY 848 CAGGCAAGGTTCCATGATTTGTACTAACATTTCTCTCATCAACCTGGTACTGGGAAAA 907
DB 885 CAGGCAAGGTTCCATGATTTGCACCTCTCAGCTTCTCTCATCCACATGTTACTGGGAGAA 944

QY 908 CCTCGTCAAGATCTGCTTTTTCATCTTCGCTTCATTTATGTCAGTGCCTCATCTACCGT 967
DB 945 CTTCTGCTCAAAATCTGTGCTTTTCATCTTCGCTTCATCATCGCGGCTCATCATCTACTGT 1004
QY 968 GTGCTATGGACTGATGATCTTTGCGCTTCAAGAGTGTCCGATGCTCTCTGGCTCCAAAGA 1027
DB 1005 GTGTTATGGACTGATGATCTTACAGCTCAAGAGTGTCCGATGCTGTGCGGCTCCAAAGA 1064
QY 1028 AAAGGACAGGAATCTTCAAGAGTCAACAGAGTGTGCTGTGCTGTGCTGTGCTGTTCAT 1087
DB 1065 AAAGGACAGGAATCTGCGGAGATCAACCGGATGCTGTGCTGTGCTGTGCTGTATTTAT 1124
QY 1088 CGTCTGTGCTGCTCCCATTCACATTTACGTCATCATTAAGACCTTGGTTACAAATCCGAGA 1147
DB 1125 TGTCTGTGCTGCTCCCATTCACATTTATGTCATCATCAAGACTGATCAGATTCGAGA 1184
QY 1148 AACTACGTTCCAGACTGTTCTTGGCACTTCTGCAATGCTCTAGGTTTACAAACAGCTG 1207
DB 1185 AACCATTTCCAGACTGTTCTTGGCACTTCTGCAATGCTTGGTTTACAAACAGCTG 1244
QY 1208 CCTCAACCCAGTCTTTATGATTTCTGGATGAAATCTTCAAGATGCTTTCAGAGATT 1267
DB 1245 CCTGAACCCAGTCTTTATGATGCTTCTGGATGAAATCTTCAAGATGCTTTCAGAGATT 1304
QY 1268 CTGATATCCCACTCTTCCAACTTGAACATTTAGCAACAACTCCACTCGAATTCGTCAAGAC 1327
DB 1305 CTGATATCCCACTCTTCCAACTTGAACATTTAGCAACAACTTCGTCAAGATTCGTCAAGAC 1364
QY 1328 TAGAGACCACTCTCCAGGCAATACAGTGGATAGAACTAATCATCAGCTAGAAATCT 1387
DB 1365 TAGGAACACCTCTCCAGGCTAATACAGTGGATGAACTAATCATCAGCTAGAAATCT 1424
QY 1388 GGAAGCAGAACTCTCGTTCCTTAACTGAGGCTCTCATGCTTCGACCTTCACCAAG 1447
DB 1425 GGAAGCAGAACTCTCGTTCCTTAACTGAGGCTCTCATGCTTCGACCTTCACCAAG 1484
QY 1448 CTTAGAGCCACCATGATGAGGAGGCTTCTCAAGAACTGTAGGAGGCTCTAAT 1507
DB 1485 CTTAGAGGCTCCCATCTCACTTGGAACTCAGGTTGCTGTCAGGTTTGTGGAGGCTCTG 1544
QY 1508 TCTCTAGAAAGTCTCTACTTTTAGTTCATCAACCTCTTCTCTCTGCGCACTCTGCT 1567
DB 1545 TCTCTGGAAGAGCTCTGATCTGCTCATCTCAAGTCAATTCCTCTCTGCGCTATTC-ACG 1603
QY 1568 CTGCACATTTAGAGGACAGCCAAAGTAAAGTGGAGCAATTTGGAAGGAAAGGAATATACCA 1627
DB 1604 CTACACGTCAGAGACA---CTCAGACTGTGTCAAGCACTCAGAAGGAAGACTGCAGGC 1660
QY 1628 CACGAGAGTCCAGTT--TGTGCAAGACACCCAGTGGAAACCAAAACCCATCTGTTGATG 1685
DB 1661 CACTACTGAATCCAGCTCATGTACAGAAACATCCAAATGGACCAATACTCTGTGGTATG 1720
QY 1686 TGAATTGAAGTCACTATAAAGGTGACCTCTCTGCTGT- AAGATTTTATTTTCAAGCAA 1744
DB 1721 TGAATTTGATCAACATAGAGGTGACCTCTTCCCTATGTTGGAATTTTAAATTTCAAGAA 1780
QY 1745 ATATTTATGACCTCAACAAAGGAAGCA---TCTTTTGTAAAGTTTCCCGTAGTAAACA 1800
DB 1781 ATACTTATGATCTCATCAAGGGAATAATAGATGTCACTTGTAAATTCACCTGTAGTATG 1840
QY 1801 CATAAAGTAAATGCTTACCTCTGATCAAGACCTTGAATGGAAGTCCGAGTCTTTTATG 1860
DB 1841 CATAAAGGAAAGCTTACCTCTGACCTCTAGGCCAGTCACTCTATGGAAGTCCCATAG 1900
QY 1861 TGTCTTTCAGGGGAATGAATCCATTTCTTATTTTATAGACTTTTAACTTTCAACTTAAAT 1920
DB 1901 GGAATATGTGAGGAA-----AATGTTGCTTCCAAATTTAAATTTTACCTTTATGT 1951
QY 1921 TAGCATCTGGCTTAAGGCAATCAATTTTACCT 1950
DB 1952 TATAGTCTAGTTAAGACATCAGGGGCACT 1981

RESULT 13
US-08-430-286A-1
; Sequence 1, Application US/08430286A
; Patent No. 6225080
; GENERAL INFORMATION:
; APPLICANT: Uhl, George R.
; APPLICANT: Eppler, C. Mark
; APPLICANT: Wang, Jai-Bel
; TITLE OF INVENTION: Mu-Subtype Opioid Receptor
; NUMBER OF SEQUENCES: 14
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Darby & Darby PC
; STREET: 805 Third Avenue
; CITY: New York
; STATE: New York
; COUNTRY: US
; ZIP: 10022
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/430,286A
; FILING DATE: 28-APR-1995
; CLASSIFICATION: 536
; ATTORNEY/AGENT INFORMATION:
; NAME: Robinson, Joseph R.
; REGISTRATION NUMBER: 33,448
; REFERENCE/DOCKET NUMBER: 0646/1A843-US5
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 212-527-7700
; TELEFAX: 212-753-6237
; TELEX: 236687
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2135 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA to mRNA
; ORIGINAL SOURCE:
; ORGANISM: Rattus rattus
; IMMEDIATE SOURCE:
; CLONE: mu receptor cDNA
; US-08-430-286A-1

Query Match 52.3%; Score 1130.2; DB 3; Length 2135;
Best Local Similarity 78.3%; Pred. No. 1.1e-287;
Matches 1457; Conservative 0; Mismatches 368; Indels 36; Gaps 7;
QY 190 GTGCCCCCGCGCGGTCACTGATGAGACAGCAGCGCTGCCCCCAGAACGCCAGCAATT 249
DB 8 GTCCGACAGCGGCTTTCAGCACCATGATGACAGCAGCACCGGCCCGAGGAACACCGCGACT 67
QY 250 GCATGTGCTGCTGGCGTACTCAAGTTGCCCCCAGCACCCAGCCCCCGGTTCTCTGGGTCA 309
DB 68 GCTCAGACCCCTTAGCTCAGGAAAGTTGCTCCCGCA-----CCTGGCTCTGGCTCA 121
QY 310 ACTTGTCCCACTTAGATGGCAACCTGTCCGACCATGCGGTCCGAAACCGCAACCACTGG 369
DB 122 ACTTGTCCAGTTGATGGCAACCCAGTCCGATCCATCGGTCTGAAACCGCAACCGGGCTG 181
QY 370 GCGGGAGAGACAGCTGTGCTCCCGACCGGCTCTCCATCATGATCAGCGGCATCAGA 429
DB 182 GCGGGAACGACAGCTGTGCTCCCGACCGGCTTCCATCGGTCAAGCCATTTACCA 241
QY 430 TCATGGCCCTTACTCTCATCTGTGCTGGTGGGCTCTTTCGGAATCTTCTGGTCTCATGT 489
DB 242 TCATGGCCCTTACTCTATCTGTGTGTAGTGGGCTCTTTCGGAATCTTCTGGTCTCATGT 301
QY 490 ATGTGATTGTGATATACACCAAGATGAAGACTGCCCAACATCTATCAATTTTCAACCTTG 549

||||| 302 ATGTGATGTAAGATATACACCAAAATGAAGACTGCCACCAACATCTACATTTTCAACCTTG 361
||||| 550 CTCTGGAGATGCTTAGCCACAGTACCTCGCCCTTCAGAGTGTGAATTAATCAATGG 609
||||| 362 CTCTGGCAGACGCTTAGCGACCAAGTACACTGCGCTTTCAGAGTGTCAACTACCTGATGG 421
||||| 610 GAACATGGCCATTTGGAAACCATCTCTTGGCAAGATAGTGATCTCCATAGATTAATATAACA 669
||||| 422 GAACATGGCCCTTCGGAAACCATCTCTTGGCAAGATCGTGATCTCAATAGATTAATATAACA 481
||||| 670 TGTTTCAACGACATATTCACCCCTCTGCACCATGAGTGTGTGATCGATACATTTGCAAGTCTGCC 729
||||| 482 TGTTTCAACGACATATTCACCCCTCTGCACCATGAGCGTGGACCGCTACATTTGCTGTCTGCC 541
||||| 730 ACCCTGTCAAGGCTTAGATTTCCGTAATTCGCTACCTCCCGAAATGCAAAATTAATCAATGTCTGCA 789
||||| 542 ACCCACTCAAGCCCTGGATTTCCGTAATTCGCTACCTCCCGAAATGCAAAATCGTCAACGCTGCA 601
||||| 790 ACTGGATCTCTCTTCAGCCATTTGCTTCTCTGTAATGTTTCATGGCTTACAAACAAATACA 849
||||| 602 ACTGGATCTCTCTTCGCAATCGGCTCGCTGTGAATGTTTCATGGCAACCAACAAATACA 661
||||| 850 GGCAAGGTTCCATAGATTTGATCACTAACATTTCTCTCATCCAACTGCTGCTGGAACAC 909
||||| 662 GGCAAGGTTCCATAGATTTGATCACTAACATTTCTCTCATCCAACTGCTGCTGGAACAC 721
||||| 910 TCGTGAAGATCTGTGTTTTCATCTTCGCTTTCATTTATGCGAGTCTCATCATTTACCGTGT 969
||||| 722 TGCTCAAAATCTGTGCTTTATCTTGGCTTTTCATCTGCGGCTCCTCATCATCACTGTGT 781
||||| 970 GCTATGCACTGATGATCTTGGCCTCAAGAGTCTCGCATGCTCTCTGCGCTCCAAAGAAA 1029
||||| 782 GTTACGCGCTGATGATTTACGACTCAAGAGCGTTTCGATGCTATCGGGCTCCAAAGAAA 841
||||| 1030 AGCAGAGGATCTTCGAAGGATCACGAGATGCTGTGCTGTGCTGTGCTGTTCATCG 1089
||||| 842 AGCAGAGGATCTTCGCGAGGATCACCGGATGCTGTGCTGTGCTGTGCTGTATTTATCG 901
||||| 1090 TCTGCTGGATCCCATTCATTCATGTCATATTAAGCTTGGTTTACATCCCAAGAAA 1149
||||| 902 TCTGCTGGACCCCATCCACATCTAGCTCATCATCAAGCGCTGATCAGATTTCCAGAAA 961
||||| 1150 CTACGTTCCAGACTGTTCTTGGCACTTCTGCACTTCTGATGCTTACAGTTCACAAACAGCTGCC 1209
||||| 962 CCACATTTACAGCCGTTTCTGCGACTTCTGCACTTCTGCACTTCTGCGTTTACGACAGCTGCC 1021
||||| 1210 TCAACCCAGTCTCTTTATGCAATTTCTGATGAAACTTTCAACGATGCTTTACAGAGATTTCT 1269
||||| 1022 TGAATCCAGTTCTTTACGCTTCTTGGATGAAACTTTCAAGCGATGCTTTACAGAGATTTCT 1081
||||| 1270 GTATCCCACTCTTCCAACTTACAGGACAACTTCCACTCGAATTCGTACAGAACACTA 1329
||||| 1082 GCATCCCACTCTGCTCCAGATGAAACAGCAAACTCCACTCGAGTCCGTCAGAACACTA 1141
||||| 1330 GAGACCACTCCAGCGCAATACAGTGATAGACTAATCATCAGCTAGAGAAATCTCG 1389
||||| 1142 GGGAAATCCCTCCAGCGCTTAATACAGTGGATCGAACTAACCCAGCTAGAGAAATCTCG 1201
||||| 1390 AAGCAGAACTGCTCGTGTCCCTTAACAGGCTCTCATGCCATTTCCGACCTTACCAAGCT 1449
||||| 1202 AGCAGAACTGCTCAATGCTTCCCTTAAGTCTTCAACCATCCAGCCCTCGTAACT 1261
||||| 1450 TAGAAGCCCATGTATGTGGAAGCAGGTTGCTTCAAGAAATGTGTAGGAGGCTCTAATTC 1509
||||| 1262 TAGAGGCGGCATCTACGTGGAATCAGGTGTGCTGTGAGGCTGTGTGGAGGCTCTGGTT 1321
||||| 1510 TCTAGGAAAGTGTCTACTTTTAGGTCTCAACCTCTTCTCTCTGCGCACTCTCTCT 1569
||||| 1322 CCTGAGAAA---CCATCTGATCTCTGCAATCAAAAGTCATTCCTCTCTGCGCTACTTCACTCT 1378
||||| 1570 GCACATTTAGAGGGAAGCAAGCAAAAGTAAGTGGAGCAATTTGGAAGGAAAGGAATATACACA 1629
|||||

Db 1379 GCACATGAGAGAT---GCTCAGACTGTATCAAGTACTCAGAAAGAGAGACTACCGGACA 1435
Qy 1630 CCGAGAGTCCAGTGTGTGCAAGACACCCAGTGG-----ACCAAAACCCATCG 1678
Db 1436 CTCCTGAATCCAGCTCATGTACAGAACCATCTGAAACCCAGTGGACCAATGCTCTG 1495
Qy 1679 TGGTATGTGAATTTGAAGTCATCAATAAAGGTGACCCCTCTGCTGTGTAAGATTTT---ATT 1736
Db 1496 TGGTATGTGAATTTGATCATCATAGAGGTGACCCCTCTCTATGTAGAAATTTTATTTT 1555
Qy 1737 TCAAGCAATATTTATGACCTCAACAAAGAAAG--ACCATCTTTTGTGTAAGTTCACCGTAG 1795
Db 1556 TCAAGCAATATTTATGACCTCATCAAGAAATAATGTCACTGTGTAATTTCACTGTAG 1615
Qy 1796 TAAACATAAAGTAAATGCTACCTCTGATCAAGCACCTTGAATGGAAGGTCGAGCTTT 1855
Db 1616 TGATACATAAAGTAAATGCTACCTCTGACCTCTGACCC-----AGTCACTTCTG 1665
Qy 1856 TTTAGTGTGTTTTGCAAGGGAATGAATCCAATTAATTTATTTTATGACTTTTAACTTCAACTT 1915
Db 1666 TAGAGATTCAGTCTCTTTTGTGATGGAATACATCATTTTCCAACTTTAAACCTTTCACTT 1725
Qy 1916 AAAATTAGCATCTGGTAAGGCATCATTTTCACTCCATTTCTTGTGTTTGTATGTTTA 1975
Db 1726 GAAGTTATGCTCTAGTTAAGACATCAGGGGCACTCCGTTTCTGTTTGTATGTTTGTG 1785
Qy 1976 AAAAATAAACATCTCTTTTCACTAGCTCCATAATTTGCAAGGGAAGAGATTAGCATGAAA 2035
Db 1786 AAAGAAGACGACATCTTCTCTCTAGCTGTGTGTTGAAATGAAAGGGATTTGAAGCACA 1845
Qy 2036 G 2036
Db 1846 G 1846

RESULT 14

US-08-889-108-1
; Sequence 1, Application US/08889108
; Patent No. 6103492
; GENERAL INFORMATION:
; APPLICANT: Yu, Lei
; TITLE OF INVENTION: Mu Opioid Receptors: Compositions and Methods
; NUMBER OF SEQUENCES: 17
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Arnold, White & Durkee
; STREET: P. O. Box 4433
; CITY: Houston
; STATE: TX
; COUNTRY: USA
; ZIP: 77210-4433
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/889,108
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/305,518
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Wilson, Mark B.
; REGISTRATION NUMBER: 37,259
; REFERENCE/DOCKET NUMBER: INDA005\WIM
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 512-418-3000
; TELEFAX: 512-474-7577
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1618 base pairs
; TYPE: nucleic acid

STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA (cDNA)
FEATURE:
NAME/KEY: CDS
LOCATION: 214..1410
US-08-889-108-1

Query Match 50.8%; Score 1099; DB 3; Length 1618;
Best Local Similarity 83.3%; Pred. No. 1.7e-279;
Matches 1311; Conservative 0; Mismatches 250; Indels 12; Gaps 5;
QY 9 GGCTATAGCAGAGAGAGATCTCAGATGCTCAGCTCGTCCCTCCGCTCAGCCTCCTC 68
DB 11 GGCTACAGCAGAGAGAGATATCAGACGCTCAG-ACGTTCCCTCTCGCTGCGCTCTTC 69
QY 69 TCTGTCTCAGCAGGAGCTGTTTCTGTAAGAAACAGCAGGAG-CTGTGGCAGCGGCGAAA 127
DB 70 TCTGTTCCACTAGGGCTGGTCCATGTAAGAAATCTGACGAGCCTAGGGCAGCTGTGAGA 129
QY 128 GGAAGCGGCTGAGGCGCTTGGAAACCGGAAAGTCTCGGTGCTCTGGCTACCTCGCACAG 187
DB 130 GGAAGAGGCTGGGGCGCTGGAAACCGGAAAGTCTGAGTGTCTCAGTTACAGGCTAC-C 188
QY 188 CGGTGCCCGCGCGCTCAGTACCATGACAGCAGCGCTGCCCGCCAGCAACGCGACAA 247
DB 189 TAGTCCGAGCAGGCGCTTTCAGACCATGACAGCAGCACCGCGCCAGGGAACACAGGGA 248
QY 248 TTGCACCTGATGCTTGGCGTACTCAAGTTGCCCGCCAGCACCCAGCCCGCGTTCCTGGGT 307
DB 249 CTGCTCAGACCCCTTAGCTCAGGCAAGTTGCTCCCGACA-----CTGGCTCCTGGCT 302
QY 308 CAACCTGTCCACTTAGATGGAACCTGTCCGACCATGCGGTGCGAACCGCACCACTT 367
DB 303 CAACCTGTCCCACTGATGGAACCACTGCGGATCATGCGGTCTGAAACCGCACCGGCT 362
QY 368 GGGCGGAGAGACGCTGCGCTCCGACCGGAGTCCCTCCATGATCAGCGGCATCAC 427
DB 363 TGGCGGGAACGACAGCGCTGTGCGCTCAGACCGGAGCGCTTCCATGTTGTCAGGCCAT 422
QY 428 GATCATGCGCTCTACTCCATGTTGCGGTGGGCTCTTCGGAACCTTCTCGGTGAT 487
DB 423 CATCATGCGCTCTACTCTATCGTGTGTAGTGGCGCTTTCGGAACCTTCTCGGTGAT 482
QY 488 GTATGTGATGTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 547
DB 483 GTATGTGATGTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 542
QY 548 TGCTCTGGCAGATGCTTAGCCACGATACCTGCGCTTCCAGAGTGTGAATTAACCTAAT 607
DB 543 TGCTCTGGCAGAGCGCTTAGCGACGATACCTGCGCTTCCAGAGTGTCAACTACCTGAT 602
QY 608 GGGAACTGGGCAATTTGGAACCATCTTTGCAAGATAGTATCTCCATAGATTACTATAA 667
DB 603 GGGAACTGGGCAATTTGGAACCATCTCTGCAAGATCTGATCTCAATAGATTACTATAA 662
QY 668 CATGTTACAGCAGATATTACCTCTGACCATGAGTGTGATGATGATGATGATGATGATG 727
DB 663 CATGTTACAGCAGATATTACCTCTGACCATGAGCGTGACCGCTACATTTGCTGTCTG 722
QY 728 CCACCTGTCAAGGCTTAGATTTCCGTACTCCCGGAATGCCAAATTAATCAATGCTGT 787
DB 723 CCACCTGTCAAGGCTTAGATTTCCGTACTCCCGGAATGCCAAATTCGTCAGAGCTGT 782
QY 788 CAACCTGGATCTCTCTCAGCCATTTGCTTCTGTAATGTTTCATGGCTACAAACAAATA 847
DB 783 CAACCTGGATCTCTCTCTGCAATCGGTCTGCTGTATGTTTCATGGCAACCAACAAATA 842
QY 848 CAGGCAAGGTTCCATAGATTGTGATGATGATGATGATGATGATGATGATGATGATGATG 907
DB 843 CAGGCAAGGTTCCATAGATTGTGATGATGATGATGATGATGATGATGATGATGATGATG 902
QY 908 CCTGTGAAGATCTGTGTTTTCATCTTCGCTTTCATTTATGCGAGTGTCTCATCTACCGT 967

DB 903 CCTGCTCAAAATCTGTGTCTTTATCTTGGCTTTTCATCATCCGATCCTCATCACTGT 962
QY 968 GTGCTATGAGTATGATCTTGGCGCTCAAGAGTGTCCGATGCTCTCTGCTCCAAAGA 1027
DB 963 GTGTTACGGCTGATGATCTTACGACTCAAGAGGTTTCGATGCTATCGGGCTCCAAAGA 1022
QY 1028 AAAGGACAGGAATCTTTCGAAGGATCACAGGATGGTCTGGTGGTGGTGGTGGTGGTGGT 1087
DB 1023 AAAGGACAGGAATCTTTCGAAGGATCACAGGATGGTCTGGTGGTGGTGGTGGTGGTGGT 1082
QY 1088 CGTCTGTGAGTCTCCATTTACATTTACGTCATCATTAAGAGCTTGGTGGTGGTGGTGGTGGT 1147
DB 1083 CGTCTGTGAGTCTCCATTTACATTTACGTCATCATTAAGAGCTTGGTGGTGGTGGTGGTGGT 1142
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DB 1143 AACACATTTTCAGACCGTTTCTGGGCACTTCTGATTTGCTTTGGGTTTACAGAACAGCTG 1202
QY 1208 CCTCAACCCAGTCTCTTTATGATTTCTGGATGAAACTTCAACGATGCTTTCAGAGATT 1267
DB 1203 CCTGATCCAGTCTTTTACGCTTCTGGATGAAACTTCAAGCGATGCTTTCAGAGATT 1262
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DB 1263 CTGCATCCCAACCTTCTGTCAGATCGAAACAGCAAACTCCACTCGAGTCCGTCAGAACAC 1322
QY 1328 TAGAGACACCCCTCCAGCGCAATACAGTGGATAGAACTAATCATCAGCTAGAAAAATCT 1387
DB 1323 TAGGGAACATCTCCCTCCAGCGCTAATACAGTGGATCGAACTAACCCAGCTAGAAAAATCT 1382
QY 1388 GGAAGCAGAAATGCTCCGTTTGCCTAACAGGGTCTCATGCCATTCGACCTTCACCAAG 1447
DB 1383 GGAGCAGAAATGCTCTCCATTTGCCATTTGCTTCAACCTCCAGACCTCCAGACCTCGCTAAG 1442
QY 1448 CTTAGAGCCACCATGATGATGGAAGCAGGTTGCTTCAAGAAATGTTAGGAGGCTCTAAT 1507
DB 1443 CTTAGAGCCCGCCATCTACGTGGAATCAGGTTGCTGTGAGGGTGTGTTGGGAGGCTCTGGT 1502
QY 1508 TCTCTAGGAAGTCCCTACTTTTAGGTATCCCAACCTCTTCCCTCTCTGGCCACTCTGCT 1567
DB 1503 TTCTGAGAAA---CCATCTGATCTGCAATTCAAAGTCAATTCCTCTCTGGCTACTTCACT 1559
QY 1568 CTGCACATTAGAG 1580
DB 1560 CTGCACATTAGAG 1572

RESULT 15
US-08-889-108-3
; Sequence 3, Application US/08889108
; Patent No. 6103492
; GENERAL INFORMATION:
; APPLICANT: Yu, Lei
; TITLE OF INVENTION: Mu Opioid Receptors: Compositions and Methods
; NUMBER OF SEQUENCES: 17
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Arnold, White & Durkee
; STREET: P. O. Box 4433
; CITY: Houston
; STATE: TX
; COUNTRY: USA
; ZIP: 77210-4433
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA: US/08/889,108
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:

```

; APPLICATION NUMBER: 08/305,518
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Wilson, Mark B.
; REGISTRATION NUMBER: 37,259
; REFERENCE/DOCKET NUMBER: INDA005\WIM
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 512-418-3000
; TELEFAX: 512-474-7577
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1618 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (cDNA)
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 339..1235
; US-08-889-108-3

Query Match      50.8%; Score 1099; DB 3; Length 1618;
Best Local Similarity 83.3%; Pred. No. 1.7e-279;
Matches 1311; Conservative 0; Mismatches 250; Indels 12; Gaps 5;

Qy 9 GGCTATAGGCAGAGGAGAAATGTCAGATGCTCAGTCGGTCCCTCGCCCTGACGCTCCTC 68
Db 11 GGCTACAAAGCAGAGGAGAAATATCAGACGCTCAG-ACGTTCCCTTCTGCGCTGCGCTTTC 69

Qy 69 TCTGTCTCAGCCAGGACTGTTTCTGTAAGAAACAGCAGGAG-CTGTGGCAGCGCGGAA 127
Db 70 TCTGGTTTCCACTAGGCTGTGTCATGTAAGATCTGACGAGGCTTAGGGCAGCTGTGAGA 129

Qy 128 GGAAGCGGCTGAGCGCTTGGAAACCCGAAAGTCTCGGTGCTCCTCGCTACCTCGCACAG 187
Db 130 GGAAGAGGCTGGGGCGCTGGAACCCGAAAGTCTGAGTGCTCTCAGTTTACAGCCTAC-C 188

Qy 188 CGGTGCCCGCCCGCGCTGAGTACCATGGAACAGAGGCTGCCCCACGACGCGAGCAA 247
Db 189 TAGTCCGACAGCGGCTTACGACCATGGAACAGCAGCAGCGGCCCGGGAACACCGCGA 248

Qy 248 TTGCACCTGATGCTTGGCGTACTCAAGTTGCCCGCCCGACGACCGCGGTTCTCTGGGT 307
Db 249 CTGCTCAGACCCCTTAGCTCAGGCAAGTTGCTCCCGACGA-----CCTGGCTCTTGGCT 302

Qy 308 CAACCTTGTCCACTTAGATGGCAACCTGTCCGACCCCATGCGGTCCGAACCGCACCAACCT 367
Db 303 CAACCTTGTCCCGTGTGATGGCAACCAAGTCCGATCCATGCGGTCTGAACCGCACCGGCT 362

Qy 368 GGGCGGAGAGACAGCTGTGCCCTCGAACCGGAGTCCCTCCATGATCAGCGCCATCAC 427
Db 363 TGGCGGGAACGACAGCGCTGTGCCCTCAGACCGGACGCTTCCATGATCAGCGCCATTAC 422

Qy 428 GATCATGGCCCTCTACTTCACTGTCGTGTTGGGCTCTTCCGAAACTTCTCTGTGTCTAT 487
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Qy 488 GTATGTGATTTGTTCAGATATACCAAGATGAAGACTGCCACCAACATCTACATTTTCAACCT 547
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Qy 548 TGCTCTGGCAGATGCTTAGCCACAGTACCTTCCCTTCCAGAGTGTGAATTTACCTAAT 607
Db 543 TGCTCTGGCAGAGCGCTTAGCCACAGTACCTTCCCTTCCAGAGTGTGAATTTACCTGAT 602

Qy 608 GGAAGCATGGCCATTTTGGAAACCATCTTTTCAGAGTAGTGTCTCCATAGATTACTATAA 667
Db 603 GGAAGCATGGCCCTTTCGAAACCATCTCTCTGAAAGATCGTGATCTCAATAGATTACTACAA 662

Qy 668 CATGTTTCCAGCATATTCACCTCTGTCACCATGAGTGTGTGATCGATACATTTGAGTCTG 727
Db 663 CATGTTTCCAGCATATTTACCTCTGTCACCATGAGCGTGGACCGGTACATTTGCTGTCTG 722
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Qy 728 CCACCTGTCAAGCGCTTAGATTTTCGTACTCCCGAAATGCCAAATTTATCAATGCTCTG 787
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Qy 788 CAACCTGGATCCTCTCTTTCAGCCATTTGCTTCTCTGTAATGTTTCATGGCTACCAAAAAA 847
Db 783 CAACCTGGATCCTCTCTTTCAGCCATTTGCTTCTCTGTAATGTTTCATGGCAACCAAAAAA 842

Qy 848 CAGGCAAGGTTTCATAGATTTGATACACTAACATTTCTCATCCAACTGTGTCTGGGAAAA 907
Db 843 CAGGCAAGGTTTCATAGATTTGATACACTAACATTTCTCATCCAACTGTGTCTGGGAAAA 902

Qy 908 CTTCTGTAAGATCTGTGTTTTCATCTTTCGCTTTCATTTGTCAGTCTCATCATACCTGT 967
Db 903 CTTCTGTAAGATCTGTGTTTTCATCTTTCGCTTTCATTTTTCATGTCGATCTCATCATCTGT 962

Qy 968 GTGCTATGGAATGATCTTTCGCTTCAAGAGTGTCCGATGCTCTCTGCTGCTTCCAAAGA 1027
Db 963 GTGTTTACGCGCTGATGATCTTACGACTCAAGAGCGTTCGATGCTATCGGCTTCCAAAGA 1022

Qy 1028 AAGGACAGGAATCTTCGAAGGATCACAGGATGCTGCTGCTGCTGCTGCTGCTGCTGCTCAT 1087
Db 1023 AAGGACAGGAATCTTCGCGAGGATCACCGGATGCTGCTGCTGCTGCTGCTGCTGCTAT 1082

Qy 1088 CGTCTGCTGACTCCCATTTACATTTACGTCATCATTAAGGCTTGGTTTCAATCCACAGA 1147
Db 1083 CGTCTGCTGACCCCATCCCATCTACGTCATCATTAAGGCTGATCAAGATTTCCAGA 1142

Qy 1148 AACTAGCTTCCAGACTGTTTCTTGGCATTCTGTCATTTGCTCTAGGTTTACAAACAGCTG 1207
Db 1143 AACCACATTTTCAGACCGTTTCTTGGCATTCTGTCATTTGCTTGGGTTTACACGAACAGCTG 1202

Qy 1208 CTTCAACCCAGCTCTTTATGCAATTTCTGATGAAAACTTCAACGATGCTTTCAGAGATT 1267
Db 1203 CTTGAATCCAGTCTTTTACGCTTCTGATGAAAACTTCAAGCGATGCTTTCAGAGATT 1262

Qy 1268 CTGTATCCCAACTCTTCCAAACATTTGAGCAACAAACTCCACTCGAATTCGTGAGAACAC 1327
Db 1263 CTGATCCCAACTCTGTCACGATCGAACGCAAAACTCCACTCGAGTCCGTGAGAACAC 1322

Qy 1328 TAGAGACCAACCCCTCCACGCGCAATAACAGTGGATAGAACTAATCATCAGCTAGAAAAATCT 1387
Db 1323 TAGGGAACATCCCTCCACGCGTAAATACAGTGGATCGAACTAACCCACGCTAGAAAAATCT 1382

Qy 1388 GGAAGCAAACTGCTTCCGCTTCCCTAACAGGGTCTCATGCGCATTCGAGACCTTCACCAAG 1447
Db 1383 GGAGGCAGAAACTGCTTCCATTTGCCCTTAACCTGGGTCTCACACCATCCAGACCCCTCGCTAAG 1442

Qy 1448 CTTAGAAGCCACCATGTATGTGGAAGCAGGTTGCTTCAAGAAATGTGTAGAGGCTCTAAT 1507
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Qy 1508 TCTTAGGAAAGTGCCTACTTTTAGGTTCATCCAACTCTTCTCTCTCTGCGCACTCTGCT 1567
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Qy 1568 CTGCACTTAGAG 1580
Db 1560 CTGCACTAGAG 1572
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Search completed: January 8, 2006, 20:21:04
Job time : 370.698 secs

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: January 8, 2006, 19:36:32 ; Search time 1712.52 Seconds
(without alignments)
10439.788 Million cell updates/sec

Title: US-09-883-839-1-C279

Perfect score: 2162

Sequence: 1 ggaattccggtataggcag.....gtggtttgtcttcggaattc 2162

Scoring table: IDENTITY NUC

Gapop 10.0 , Gapext 1.0

Searched: 9793542 seqs, 4134689005 residues

Total number of hits satisfying chosen parameters: 19587084

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications NA Main:*

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10: /cgn2_6/ptodata/1/pubpna/US10F_PUBCOMB.seq.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	2160	99.9	2162	3	US-09-883-839-3
2	2158.4	99.8	2162	3	US-09-883-839-1
3	2158.4	99.8	2162	5	US-10-225-567A-185
4	2158.4	99.8	2162	6	US-10-305-720-1379
5	2158.4	99.8	2162	9	US-10-500-050-1
6	2156.8	99.8	2162	3	US-09-883-839-5
7	2156.8	99.8	2162	3	US-09-883-839-7
8	2156.8	99.8	2162	3	US-09-883-839-8
9	2145.4	99.2	2165	3	US-09-883-839-9
10	2108.8	97.5	2149	5	US-10-080-917-12
11	2097.8	97.0	2279	8	US-10-477-714-33
12	1351.8	62.5	1473	5	US-10-080-917-13
13	1343.6	62.1	1431	5	US-10-080-917-6
14	1198.2	55.4	1203	3	US-09-826-509-544
15	1198.2	55.4	1203	8	US-10-925-095-544
16	1197	55.4	1388	5	US-10-185-083-26
17	1195.6	55.3	1464	5	US-10-185-083-25
18	1177.4	54.5	2229	3	US-09-214-904-1
19	1163.6	53.8	1182	3	US-09-826-509-546
20	1163.6	53.8	1182	8	US-10-925-095-546
21	1157.6	53.5	1245	5	US-10-080-917-8
22	1155.8	53.5	1176	3	US-09-935-061-11
23	1155.8	53.5	1176	7	US-10-692-071-11

24 1147 53.1 1981 3 US-09-823-114-15 Sequence 15, Appl
25 1147 53.1 1981 6 US-10-290-748-15 Sequence 15, Appl
26 1127 52.1 1176 3 US-09-935-061-13 Sequence 13, Appl
27 1127 52.1 1176 7 US-10-692-071-13 Sequence 13, Appl
28 1124.8 52.0 1197 3 US-09-935-061-15 Sequence 15, Appl
29 1124.8 52.0 1197 7 US-10-692-071-15 Sequence 15, Appl
30 1103.6 51.0 1239 5 US-10-080-917-10 Sequence 10, Appl
31 1099 50.8 1618 3 US-09-841-720-1 Sequence 1, Appl
32 1099 50.8 1618 3 US-09-841-720-3 Sequence 3, Appl
33 1071 49.5 1610 5 US-09-761-962-16 Sequence 16, Appl
34 1071 49.5 1610 5 US-10-283-300-16 Sequence 16, Appl
35 1020.8 47.2 1614 5 US-10-185-083-16 Sequence 17, Appl
36 992.8 45.9 1569 5 US-10-185-083-17 Sequence 15, Appl
37 990.6 45.8 1440 5 US-10-185-083-15 Sequence 24, Appl
38 919.4 42.5 1695 5 US-10-185-083-24 Sequence 4, Appl
39 916.4 42.4 1542 3 US-09-761-962-4 Sequence 4, Appl
40 916.4 42.4 1542 5 US-10-283-300-4 Sequence 11, Appl
41 915 42.3 1365 3 US-09-761-962-11 Sequence 11, Appl
42 915 42.3 1365 5 US-10-283-300-11 Sequence 11, Appl
43 915 42.3 1373 5 US-10-185-083-51 Sequence 51, Appl
44 915 42.3 1423 3 US-09-761-962-1 Sequence 1, Appl
45 915 42.3 1423 5 US-10-283-300-1 Sequence 1, Appl

ALIGNMENTS

RESULT 1

US-09-883-839-3

; Sequence 3, Application US/09883839

; Publication No. US20040209250A1

; GENERAL INFORMATION:

; APPLICANT: Kreek, Mary Jeanne

; APPLICANT: LaForge, Karl Steven

; TITLE OF INVENTION: Alleles of the Human Mu Opioid Receptor,

; TITLE OF INVENTION: Diagnostic Methods Using Said Alleles, and Methods of

; TITLE OF INVENTION: Treatment Based Thereon

; FILE REFERENCE: 600-1-266N

; CURRENT APPLICATION NUMBER: US/09/883,839

; CURRENT FILING DATE: 2001-06-18

; PRIOR FILING DATE: 2000-06-16

; NUMBER OF SEQ ID NOS: 10

; SOFTWARE: Fast-Seq for Windows Version 4.0

; SEQ ID NO 3

; LENGTH: 2162

; TYPE: DNA

; ORGANISM: Homo sapiens

; FEATURE:

; NAME/KEY: misc feature

; LOCATION: 2063..2091

; OTHER INFORMATION: n = A, T, C or G

US-09-883-839-3

Query Match 99.9%; Score 2160; DB 3; Length 2162;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 2162; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GGAATTCGGCTATAGGACAGGAGATGTCTGTAAGAAACAGCAGGAGCTGTGGCAGC 60
Db 1 GGAATTCGGCTATAGGACAGGAGATGTCTGTAAGAAACAGCAGGAGCTGTGGCAGC 60
Qy 61 CGCTCCTCTGTCTCAGCCAGGAGTCTTCTGTAAGAAACAGCAGGAGCTGTGGCAGC 120
Db 61 CGCTCCTCTGTCTCAGCCAGGAGTCTTCTGTAAGAAACAGCAGGAGCTGTGGCAGC 120
Qy 121 GCGGAAAGGAGCGGCTGAGCGCTTGGAAACCGGAAAGTCTCGGTGCTCTTGGCTACT 180
Db 121 GCGGAAAGGAGCGGCTGAGCGCTTGGAAACCGGAAAGTCTCGGTGCTCTTGGCTACT 180
Qy 181 CGCAACAGCGGTGCCCGCCCGCCCGCCCGCCCGCCCGCCCGCCCGCCCGCCCGCC 240
Db 181 CGCAACAGCGGTGCCCGCCCGCCCGCCCGCCCGCCCGCCCGCCCGCCCGCCCGCC 240

QY 241 CCAGCAATTGCACTGATGCCCTTGGCGTACTCAAGTTGGCCGCCGAGCACCAGAGCCCGGTT 300
DB |||||
241 CCAGCAATTGCACTGATGCCCTTGGCGTACTCAAGTTGGCCGCCGAGCACCAGAGCCCGGTT 300
QY 301 CTTGGGTCAACTTGTGCCATTAGATGGCAACCTGTCCGACCCATGCGGTCGAAACCGCA 360
DB |||||
301 CTTGGGTCAACTTGTGCCATTAGATGGCAACCTGTCCGACCCATGCGGTCGAAACCGCA 360
QY 361 CCAACCTGGGGGGGAGAGACAGCCTGTGCCCTCCGACCCGCGAGTCCCTCCATGATCACGG 420
DB |||||
361 CCAACCTGGGGGGGAGAGACAGCCTGTGCCCTCCGACCCGCGAGTCCCTCCATGATCACGG 420
QY 421 CCATCAGATCATGCGCCCTCTACTCCATCGTGTGCGTGGGCTCTTCGGAAACTTCC 480
DB |||||
421 CCATCAGATCATGCGCCCTCTACTCCATCGTGTGCGTGGGCTCTTCGGAAACTTCC 480
QY 481 TGGTCATGTATGTTGTTCAGATACACCAAGATGAAGACTGCCACCAATCTCATTT 540
DB |||||
541 TCAACCTTGTCTGGCAGATGCCCTTAGCCACAGTACCCCTGCCCTTCCAGAGTGTGAAT 600
DB |||||
541 TCAACCTTGTCTGGCAGATGCCCTTAGCCACAGTACCCCTGCCCTTCCAGAGTGTGAAT 600
QY 601 ACCTAATGGGAAACATGGGCCATTTGGAAACCATCTCTTGGCAAGATAGTGAATCTCCATAGATT 660
DB |||||
601 ACCTAATGGGAAACATGGGCCATTTGGAAACCATCTCTTGGCAAGATAGTGAATCTCCATAGATT 660
QY 661 ACTATAACATGTTTACCAGATATTCACCCCTCTGCACCATGAGTGTGTGATCGATATG 720
DB |||||
721 CAGTCTGCCACCTGTCAAGCCCTTAGATTTCGGTACTCCCGAAATGCCAAATTTATCA 780
QY 781 ATGCTGCAACTGATCTCTCTTCCGCAATTCGCTCTTCTGTAAGTTTCATGGCTACAA 840
DB |||||
781 ATGCTGCAACTGATCTCTCTTCCGCAATTCGCTCTTCTGTAAGTTTCATGGCTACAA 840
QY 841 CAAATAACAGGCAAGGTTTCCATAGATTGTACACTAACATTTCTCTCATCCAACTGGTACT 900
DB |||||
841 CAAATAACAGGCAAGGTTTCCATAGATTGTACACTAACATTTCTCTCATCCAACTGGTACT 900
QY 901 GGGAAACCTCGTGAAGATCTGTGTTTTCATCTTGGCTTCATTTATGTCGAGTCTCATCA 960
DB |||||
901 GGGAAACCTCGTGAAGATCTGTGTTTTCATCTTGGCTTCATTTATGTCGAGTCTCATCA 960
QY 961 TTACCGTGTCTATGGACTGATGATCTTGGCCCTCAAGAGTGTCCGATGCTCTCTGGCT 1020
DB |||||
961 TTACCGTGTCTATGGACTGATGATCTTGGCCCTCAAGAGTGTCCGATGCTCTCTGGCT 1020
QY 1021 CCAAGAAAGGACAGGAATCTTTCGAAGGATCACAGGATGCTGCTGGTGGTGGCTG 1080
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DB |||||
1081 TGTTTCATGCTGTGACTGCCATTCACATTTACATTTAAGCCCTTGGTTTACAA 1140
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DB |||||
1201 ACAGCTGCCCTCAACCCAGTCTTATGCAATTTCTGGAATGAAACTTCAAACGATGTTCA 1260
QY 1261 GAGAGTTCTGTATCCCAACCTCTTCCAACTTCCAACTTCCAACTTCCAACTTCCAACTTCCGTC 1320
DB |||||
1261 GAGAGTTCTGTATCCCAACCTCTTCCAACTTCCAACTTCCAACTTCCAACTTCCAACTTCCGTC 1320

QY 1321 AGAACACTAGAGACCACTCTCCAGGCCAATACAGTGGATAGAACTAATCATCAGCTAG 1380
DB |||||
1321 AGAACACTAGAGACCACTCTCCAGGCCAATACAGTGGATAGAACTAATCATCAGCTAG 1380
QY 1381 AAAATCTGGAACAGAACTGCTCCGTTGCGCTTAAAGAGGCTCATGCCATTCGACCTT 1440
DB |||||
1381 AAAATCTGGAACAGAACTGCTCCGTTGCGCTTAAAGAGGCTCATGCCATTCGACCTT 1440
QY 1441 CACCAAGCTTTAGAAGCCCATGTATGTGGAAGAGGTTGCTTCAAGAAATGTGTAGGAG 1500
DB |||||
1441 CACCAAGCTTTAGAAGCCCATGTATGTGGAAGAGGTTGCTTCAAGAAATGTGTAGGAG 1500
QY 1501 CTCTAATCTCTAGGAAAGTGCCTACTTTTAGGTTCATCCAACTCTCTCTCTCGGCCA 1560
DB |||||
1501 CTCTAATCTCTAGGAAAGTGCCTACTTTTAGGTTCATCCAACTCTCTCTCTCGGCCA 1560
QY 1561 CTCTGCTGTGCACATTTAGAGGACAGCCAAAGTAAAGTGGAGCATTTGGAAGAAAGGAA 1620
DB |||||
1561 CTCTGCTGTGCACATTTAGAGGACAGCCAAAGTAAAGTGGAGCATTTGGAAGAAAGGAA 1620
QY 1621 TATACACACCCAGGAGTCCAGTTCGCAAGACACCCAGTGGAAACCCATCGTG 1680
DB |||||
1621 TATACACACCCAGGAGTCCAGTTCGCAAGACACCCAGTGGAAACCCATCGTG 1680
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DB |||||
1681 GTATGTGAATTCGAAGTCATCAATAAGGTGACCTTCTGCTGTGAAGATTTTATTTCAA 1740
QY 1741 GCAATAATTTATGACCTCAACAAAGAAAGAACCATCTTTTGTAAAGTTCAACGTTAGTAA 1800
DB |||||
1741 GCAATAATTTATGACCTCAACAAAGAAAGAACCATCTTTTGTAAAGTTCAACGTTAGTAA 1800
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DB |||||
1801 CATTAAGTAAATGCTACCTCTCATCAAGGACCTTGAATGGAGGTCGAGTCTTTTAG 1860
QY 1861 TGTTTTTGAAGGAAATGAATCCATTTATTTTAGACTTTTAACTTTCAACTTAAAT 1920
DB |||||
1861 TGTTTTTGAAGGAAATGAATCCATTTATTTTAGACTTTTAACTTTCAACTTAAAT 1920
QY 1921 TAGCATCTGGCTTAAGGCATCATTTTCACTTCTTGTGTTTGTATTTTAAAAA 1980
DB |||||
1921 TAGCATCTGGCTTAAGGCATCATTTTCACTTCTTGTGTTTGTATTTTAAAAA 1980
QY 1981 AATAACATCTCTTTTCACTAGCTCCATTAATTCGAAGGAGAGATTAGCATGAAGGTAA 2040
DB |||||
1981 AATAACATCTCTTTTCACTAGCTCCATTAATTCGAAGGAGAGATTAGCATGAAGGTAA 2040
QY 2041 TCTGAAACACAGTCTATGTCANCTGTAGAAAGGTTGATTTCTCATGCACTNCAAAATCTT 2100
DB |||||
2041 TCTGAAACACAGTCTATGTCANCTGTAGAAAGGTTGATTTCTCATGCACTNCAAAATCTT 2100
QY 2101 CCAAGAGTCTATGAGGAGATTTTTCATTTAGGCTTTAGGCTTTAGTGGTTTCTCTGGAAT 2160
DB |||||
2101 CCAAGAGTCTATGAGGAGATTTTTCATTTAGGCTTTAGGCTTTAGTGGTTTCTCTGGAAT 2160
QY 2161 TC 2162
DB |||
2161 TC 2162

RESULT 2

US-09-883-839-1
; Sequence 1, Application US/09883839
; Publication NO. US20040209250A1
; GENERAL INFORMATION:
; APPLICANT: Kreek, Mary Jeanne
; APPLICANT: LaForge, Karl Steven
; TITLE OF INVENTION: Alleles of the Human Mu Opioid Receptor,
; TITLE OF INVENTION: Diagnostic Methods Using Said Alleles, and Methods of
; TITLE OF INVENTION: Treatment Based Thereon
; FILE REFERENCE: 600-1-266N
; CURRENT APPLICATION NUMBER: US/09/883,839

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; CURRENT FILING DATE: 2001-06-18
; PRIOR APPLICATION NUMBER: 60/212,225
; PRIOR FILING DATE: 2000-06-16
; NUMBER OF SEQ ID NOS: 10
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1
; LENGTH: 2162
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: 2063, 2091
; OTHER INFORMATION: n = A,T,C or G

US-09-883-839-1

Query Match 99.8%; Score 2158.4; DB 3; Length 2162;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 2161; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

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Db	61	CGCTCCTCTCTGCTCAGCCAGGACTGGTTTCTGTAAAGAACAGCAGAGCTGTGGCAGC	120
Qy	121	GGCGAAAGAGCGGCTGAGCGCTTGGAAACCGGAAAGTCTCGGTGCTCTGGCTACCT	180
Db	121	GGCGAAAGAGCGGCTGAGCGCTTGGAAACCGGAAAGTCTCGGTGCTCTGGCTACCT	180
Qy	181	CGCACGGGTGCCCGCGCGCTCAGTACCAAGTGGACAGCGGCTGCCCGACGAAACG	240
Db	181	CGCACGGGTGCCCGCGCGCTCAGTACCAAGTGGACAGCGGCTGCCCGACGAAACG	240
Qy	241	CCAGCAATTGCACTGATGCTTGGCGTACTCAAGTTGCTCCCGACGCCCGCGGT	300
Db	241	CCAGCAATTGCACTGATGCTTGGCGTACTCAAGTTGCTCCCGACGCCCGCGGT	300
Qy	301	CTGGGTCAATCTGCTCCACTTAGATGGCAACCTGTCGACCCATCGGTCGGAACGCA	360
Db	301	CTGGGTCAATCTGCTCCACTTAGATGGCAACCTGTCGACCCATCGGTCGGAACGCA	360
Qy	361	CCAACTGGGGGAGAGAGAGCTGTCCTCGACCGGAGTCCCTCATGATCAGG	420
Db	361	CCAACTGGGGGAGAGAGAGCTGTCCTCGACCGGAGTCCCTCATGATCAGG	420
Qy	421	CCATCAGATCATGGCCCTCTACTCCATCGTGTGGTGGGCTCTTCGGAACCTTC	480
Db	421	CCATCAGATCATGGCCCTCTACTCCATCGTGTGGTGGGCTCTTCGGAACCTTC	480
Qy	481	TGGTCATGTATGTGATGTAGATACCAAGATGAAGATGCGCAACATCTACATTT	540
Db	481	TGGTCATGTATGTGATGTAGATACCAAGATGAAGATGCGCAACATCTACATTT	540
Qy	541	TCAACCTTGCTGGCAGATGCTTAGCCACAGTACCTGCGGCTCCAGAGTGAAT	600
Db	541	TCAACCTTGCTGGCAGATGCTTAGCCACAGTACCTGCGGCTCCAGAGTGAAT	600
Qy	601	ACCTAATGGGAACATGGCCATTTGGAAACCATCTTTGCAAGATAGTATCTCCATAGAT	660
Db	601	ACCTAATGGGAACATGGCCATTTGGAAACCATCTTTGCAAGATAGTATCTCCATAGAT	660
Qy	661	ACTATAACATGTTCAACAGCATATTCACCTCTGCAACATGAGTGTGATGATGATG	720
Db	661	ACTATAACATGTTCAACAGCATATTCACCTCTGCAACATGAGTGTGATGATGATG	720
Qy	721	CAGTCTGCGACCTGTCAAGGCTTAGATTTCCGTACTCCCGGAAATGCCAAATATCA	780
Db	721	CAGTCTGCGACCTGTCAAGGCTTAGATTTCCGTACTCCCGGAAATGCCAAATATCA	780
Qy	781	ATGCTGCAACTGGATCTCTCTCAGCCATTTGCTCTCTGTAATGTTTCATGGCTACAA	840
Db			

Db	781	ATGCTGCAACTGGATCTCTCTCAGCCATTTGGTCTTCTGTAATGTTTCATGGCTACAA	840
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Qy	901	GGGAAAACCTCGTGAAGATCTGTGTTTTCATCTTCGCTTCATATGCGAGTGTCTATCA	960
Db	901	GGGAAAACCTCGTGAAGATCTGTGTTTTCATCTTCGCTTCATATGCGAGTGTCTATCA	960
Qy	961	TTACCGTGTCTATGACTGATGATCTTGGCCCTCAAGAGTGTCCGATCTCTCTGGCT	1020
Db	961	TTACCGTGTCTATGACTGATGATCTTGGCCCTCAAGAGTGTCCGATCTCTCTGGCT	1020
Qy	1021	CAAAGAAAAGGACAGGAATCTTCGAAGGATCACAGGATGGTGTGGTGGTGGCTG	1080
Db	1021	CAAAGAAAAGGACAGGAATCTTCGAAGGATCACAGGATGGTGTGGTGGTGGCTG	1080
Qy	1081	TGTTCAATCGTCTGCTGGAATCTCCCATTCACATTTACGTTCATTAAGCCCTTGGTTACAA	1140
Db	1081	TGTTCAATCGTCTGCTGGAATCTCCCATTCACATTTACGTTCATTAAGCCCTTGGTTACAA	1140
Qy	1141	TCCAGAAACTAGTTCAGACTGTTTCTTGGCAGTCTGCAATTCCTAGGTTACACAA	1200
Db	1141	TCCAGAAACTAGTTCAGACTGTTTCTTGGCAGTCTGCAATTCCTAGGTTACACAA	1200
Qy	1201	ACAGCTGCTCAACCCAGTCTTTTATGCAATTTCTGGATGAAAACCTTCAAAACGATGCTCA	1260
Db	1201	ACAGCTGCTCAACCCAGTCTTTTATGCAATTTCTGGATGAAAACCTTCAAAACGATGCTCA	1260
Qy	1261	GAGAGTTCTGTATTCCAAACCTCTTCCAAATTCAGCAACAAAACCTCCACATTCGCTC	1320
Db	1261	GAGAGTTCTGTATTCCAAACCTCTTCCAAATTCAGCAACAAAACCTCCACATTCGCTC	1320
Qy	1321	AGAACTAGAGACCAACCTCTCCAGCCCAATACAGTGGATAGAACTAATCATCAGCTAG	1380
Db	1321	AGAACTAGAGACCAACCTCTCCAGCCCAATACAGTGGATAGAACTAATCATCAGCTAG	1380
Qy	1381	AAATCTGGAAGCAGAACTGCTCCGTTGCCCTTAAACAGGCTCTCATGCCATTCGACCTT	1440
Db	1381	AAATCTGGAAGCAGAACTGCTCCGTTGCCCTTAAACAGGCTCTCATGCCATTCGACCTT	1440
Qy	1441	CACCAAGCTTAGAAGCCACCATGTATGTGGAAGCAGGTTGCTTCAAGAAATGTGTAGGAG	1500
Db	1441	CACCAAGCTTAGAAGCCACCATGTATGTGGAAGCAGGTTGCTTCAAGAAATGTGTAGGAG	1500
Qy	1501	CTCTAATCTCTAGGAAGTGCCTACTTTTAGTTCATCCAACTCTTCTCTCTGCGCA	1560
Db	1501	CTCTAATCTCTAGGAAGTGCCTACTTTTAGTTCATCCAACTCTTCTCTCTGCGCA	1560
Qy	1561	CTCTGCTCTGCACATTAGAGGAGCAGCAAAAGTAAGTGGAGCATTTGGAAGGAAGGAA	1620
Db	1561	CTCTGCTCTGCACATTAGAGGAGCAGCAAAAGTAAGTGGAGCATTTGGAAGGAAGGAA	1620
Qy	1621	TATACCAACCGGAGGAGTCCAGTTTGTGCAAGACACCCAGTGGAAACCAAAACCCATCGTG	1680
Db	1621	TATACCAACCGGAGGAGTCCAGTTTGTGCAAGACACCCAGTGGAAACCAAAACCCATCGTG	1680
Qy	1681	GTATGTGAATGAAGTCAATATAAAGGTGACCCCTTCTGTCTGTGAAGATTTTATTTTCAA	1740
Db	1681	GTATGTGAATGAAGTCAATATAAAGGTGACCCCTTCTGTCTGTGAAGATTTTATTTTCAA	1740
Qy	1741	GCAAAATTTATGACCTCAACAAAGAGAACCATCTTTTGAAGTTTCAACCGTAGTAACA	1800
Db	1741	GCAAAATTTATGACCTCAACAAAGAGAACCATCTTTTGAAGTTTCAACCGTAGTAACA	1800
Qy	1801	CATAAAGTAAATGCTACTCTCTGATCAAGCACTTGAATGGAAGGTCCGAGTCTTTTATAG	1860
Db	1801	CATAAAGTAAATGCTACTCTCTGATCAAGCACTTGAATGGAAGGTCCGAGTCTTTTATAG	1860
Qy	1861	TGTTTTTGCAGGGAATGAATTCATTTCTATTTTATAGCTTTTAACTTCAACTTAAAT	1920
Db	1861	TGTTTTTGCAGGGAATGAATTCATTTCTATTTTATAGCTTTTAACTTCAACTTAAAT	1920

QY 1921 TAGCATCTGGCTAAGGATCATTTTACCTCCATTTCTTGGTTTCTATTTGTTTAAAAA 1980
Db 1921 TAGCATCTGGCTAAGGATCATTTTACCTCCATTTCTTGGTTTCTATTTGTTTAAAAA 1980
QY 1981 AATAAACATCTCTTTTCATCTAGCTCCATAATTGCAAGGGAAGAGATTAGCATGAAAGGTAA 2040
Db 1981 AATAACATCTCTTTTCATCTAGCTCCATAATTGCAAGGGAAGAGATTAGCATGAAAGGTAA 2040
QY 2041 TCTGAAACACAGTCATGTGTGCANCTGTAGAAAGGTTGATTTCTCATGCACTNCAAAATCTT 2100
Db 2041 TCTGAAACACAGTCATGTGTGCANCTGTAGAAAGGTTGATTTCTCATGCACTNCAAAATCTT 2100
QY 2101 CCAAGAGTCATCATGGGGATTTTTCATCTTAGGCTTTTCAGTGGTTTCTCCTGGAAT 2160
Db 2101 CCAAGAGTCATCATGGGGATTTTTCATCTTAGGCTTTTCAGTGGTTTCTCCTGGAAT 2160
QY 2161 TC 2162
Db 2161 TC 2162
RESULT 3
US-10-225-567A-185
; Sequence 185 Application US/10225567A
; Publication No. US20030113798A1
; GENERAL INFORMATION:
; APPLICANT: LifeSpan Biosciences
; APPLICANT: Brown, Joseph P.
; APPLICANT: Burner, Glenn C.
; APPLICANT: Roush, Christine L.
; TITLE OF INVENTION: ANTIGENIC PEPTIDES AND ANTIBODIES FOR G PROTEIN-COUPLED RECEPTORS
; FILE REFERENCE: 1920-4-4
; CURRENT APPLICATION NUMBER: US/10/225,567A
; CURRENT FILING DATE: 2001-12-19
; PRIOR APPLICATION NUMBER: 60/257,144
; PRIOR FILING DATE: 2000-12-19
; NUMBER OF SEQ ID NOS: 2292
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 185
; LENGTH: 2162
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (2063)..(2063)
; OTHER INFORMATION: unknown nucleotide
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (2091)..(2091)
; OTHER INFORMATION: unknown nucleotide
; US-10-225-567A-185
Query Match 99.8%; Score 2158.4; DB 5; Length 2162;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 2161; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
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Db 1 GGAATTCGGCTATAGGCAGAGGAGATGTCAGATGCTCAGCTCGGTCGCCCTCGGCTGA 60
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Db 61 CGCTCTCTCTGTCTAGCCAGAGCTGGTTTCTGTAAAGAACAGCAGGAGCTGTGGCAGC 120
QY 121 GCGGAAAGGAGCGGCTGAGCGCTTGGAAACCGAAAGTCTCGGCTCTCTCGGCTACCT 180
Db 121 GCGGAAAGGAGCGGCTGAGCGCTTGGAAACCGAAAGTCTCGGCTCTCTCGGCTACCT 180
QY 181 CGCACAGCGGTGCGCGCGCGCTCAGTACCATGGAACAGCAGCGTGGCCCCCAGCAACG 240
Db 181 CGCACAGCGGTGCGCGCGCGCTCAGTACCATGGAACAGCAGCGTGGCCCCCAGCAACG 240

QY 241 CCAGCAATTGCACCTGATGCTTTGGGTACTCAAGTTGCCCCAGCACCCAGCCCCGGTT 300
Db 241 CCAGCAATTGCACCTGATGCTTTGGGTACTCAAGTTGCCCCAGCACCCAGCCCCGGTT 300
QY 301 CTTGGGTCAACTTGTCTCCACTTTAGATGGCAAACCTGTCGACCCATGCGGTCCGAAACCGCA 360
Db 301 CTTGGGTCAACTTGTCTCCACTTTAGATGGCAAACCTGTCGACCCATGCGGTCCGAAACCGCA 360
QY 361 CCAACTGGGGGAGAGACAGCCTGTGCCCTCCGACCGGCACTCCCTCCATGATCACCG 420
Db 361 CCAACTGGGGGAGAGACAGCCTGTGCCCTCCGACCGGCACTCCCTCCATGATCACCG 420
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Db 1261 GAGAGTTCTGTATCCCAACCTCTTCCAAATTGAGCAACAAATCTCCTCGAATTCGTC 1320
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1321 AGAACCTAGAGCACCCCTCCACGCGCCAAATACAGTGGATAGAACTAATCATCAGCTAG 1380
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1801 CATAAAGTAAATGCTACCTCTGATCAAGACACCTTGAATGGAAGTCCGAGTCTTTTAG 1860
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1861 TGTTTTTGCAGGGAATGAATFCAATTTATTTTAGACTTTTAACTTCAACTTAAAT 1920
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2161 TC 2162
2161 TC 2162
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RESULT 4
US-10-305-720-1379
; Sequence 1379, Application US/10305720
; Publication No. US20040010136A1
; GENERAL INFORMATION:
; APPLICANT: Au-Young, Janice K.; Seilhamer, Jeffrey J.
; TITLE OF INVENTION: Composition for the Detection of Signaling Pathway Gene Expression
; FILE REFERENCE: PA-0002-1 CON
; CURRENT APPLICATION NUMBER: US/10/305,720
; PRIOR FILING DATE: 2002-11-26
; PRIOR APPLICATION NUMBER: 09/016,434
; PRIOR FILING DATE: 1998-01-30
; NUMBER OF SEQ ID NOS: 1490

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; SOFTWARE: PERL Program  
; SEQ ID NO 1379  
; LENGTH: 2162  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: misc_feature  
; OTHER INFORMATION: GenBank ID No. US20040010136A1 9452072  
; NAME/KEY: unsure  
; LOCATION: (1) ... (2162)  
; OTHER INFORMATION: a, t, c, g, or other  
US-10-305-720-1379  
  
Query Match 99.8%; Score 2158.4; DB 6; Length 2162;  
Best Local Similarity 100.0%; Pred. No. 0;  
Matches 2161; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
  
Qy 1 GGAATTCGGCTATAGGCAAGAGAAATGTCAGATGCTCAGTCCGTCCCTCCGCTCGA 60  
Db 1 GGAATTCGGCTATAGGCAAGAGAAATGTCAGATGCTCAGTCCGTCCCTCCGCTCGA 60  
  
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Db 301 CTTGGGTCAACTTGTCCCACTTAGATGGCAACCTGTCCGACCCATCGGTCGGAACCGCA 360  
  
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Db 361 CCAACCTGGCGGGAGAGACAGCTGTGCTCCGACCGGAGTCCCTCCATGATCAGG 420  
  
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Db 481 TGGTCAATGATGATGTCAGATACACCAAGATGAAGACTGCCCAACAATCTACATTT 540  
  
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Db 661 ACTATAACATGTTTACCAGCATATTACCTCTGACCATGAGTGTGATCGATACATTTG 720  
  
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DB 961 TTACCGTGTGTATGACTGATCTTGGCCCTCAAGAGTGTCGCCATGCTCTCTGGCT 1020
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DB 1801 CATAAAGTAAATGCTACTCTCTGATCAAGCACCTTGAATGGAAGGTCGAGTCTTTTAG 1860
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DB 1861 TGTTTTTGCNAGGGAATGAATTCATTTTCTATTTTAGCTTTTAACTTCAACTTAAAT 1920

RESULT 5

US-10-500-050-1
; Sequence 1, Application US/10500050
; Publication No. US20050106568A1
; GENERAL INFORMATION:
; APPLICANT: Takeda Chemical Industries, Ltd.
; TITLE OF INVENTION: Method of Quantifying Nucleic Acid And Kit for Quantifying Nucleic Acid
; FILE REFERENCE: P02-0156
; CURRENT APPLICATION NUMBER: US/10/500,050
; CURRENT FILING DATE: 2004-06-25
; PRIOR APPLICATION NUMBER: JP 2001-400280
; PRIOR FILING DATE: 2001-12-28
; NUMBER OF SEQ ID NOS: 10
; SEQ ID NO 1
; LENGTH: 2162
; TYPE: DNA
; ORGANISM: Human
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: 2063.. 2091
; OTHER INFORMATION: n stands for any base
US-10-500-050-1

Query Match 99.8%; Score 2158.4; DB 9; Length 2162;

Best Local Similarity 100.0%; Pred. No. 0; Mismatches 1; Indels 0; Gaps 0;

Matches 2161; Conservative 0;

QY 1 GGAAATTCGGCTATAGGCAGAGAGAAATGTCAGATGCTCAGCTCGGTCCCTCCGCTGA 60
DB 1 GGAAATTCGGCTATAGGCAGAGAGAAATGTCAGATGCTCAGCTCGGTCCCTCCGCTGA 60
QY 61 CGCTCTCTCTGCTCAGCCAGGACTGGTTTCTGTAAGAAAACAGCAGGAGCTGTGCAGC 120
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QY 361 CCAACCTGGGCGGAGAGACAGCCTGTGCTCCGACCGGAGTCCCTCCATGATCACGG 420

Db 361 CCAACCTGGGCGGAGAGACAGCGCTGTGCCCCTCCGACCGGAGTCCCTCCATGATCAGG 420
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Qy 1201 ACAGTGTCTCAACCCAGTCTTTATGATTTCTGGATGAAACTTCAAAAGATGCTTCA 1260
Db 1201 ACAGTGTCTCAACCCAGTCTTTATGATTTCTGGATGAAACTTCAAAAGATGCTTCA 1260
Qy 1261 GAGAGTCTGTATCCCAACCTCTTCCCAATTTGAGCAACAACTCCACTCGAATTCGTC 1320
Db 1261 GAGAGTCTGTATCCCAACCTCTTCCCAATTTGAGCAACAACTCCACTCGAATTCGTC 1320
Qy 1321 AGAACCTAGAGACACCCCTCCAGGCAATACAGTGGATAGAACTAATCATCAGCTAG 1380
Db 1321 AGAACCTAGAGACACCCCTCCAGGCAATACAGTGGATAGAACTAATCATCAGCTAG 1380
Qy 1381 AAATCTGGAAGCAGAACTGCTCCGTTGCCCTAACAGGCTCATGCGCATTCGACCTT 1440
Db 1381 AAATCTGGAAGCAGAACTGCTCCGTTGCCCTAACAGGCTCATGCGCATTCGACCTT 1440
Qy 1441 CACCAAGCTTAGAAGCCACCATGTATGTGGAAGCAGGTTGCTTCAAGAAATGTGTAGGAGG 1500

Db 1441 CACCAAGCTTAGAAGCCACCATGTATGTGGAAGCAGGTTGCTTCAAGAAATGTGTAGGAGG 1500
Qy 1501 CTCTAATTTCTTAGGAAGTGCCTACTTTTGTAGGTCATCCAACCTCTTTCTCTCTGGCCA 1560
Db 1501 CTCTAATTTCTTAGGAAGTGCCTACTTTTGTAGGTCATCCAACCTCTTTCTCTCTGGCCA 1560
Qy 1561 CTCTGCTCTGCACATTAGAGGGACAGCCAAAAGTAAGTGGAGCATTTTGGAAAGGAAGAA 1620
Db 1561 CTCTGCTCTGCACATTAGAGGGACAGCCAAAAGTAAGTGGAGCATTTTGGAAAGGAAGAA 1620
Qy 1621 TATACCAACCGAGGAGTCCAGTTTGTGCAAGCACCCAGTGGAAACCAAAACCCATCTG 1680
Db 1621 TATACCAACCGAGGAGTCCAGTTTGTGCAAGCACCCAGTGGAAACCAAAACCCATCTG 1680
Qy 1681 GTATGCAATTTGAAGTCAATCAAAAAGTGCACCTTCTGTCTGTAAGATTTTATTTTCAA 1740
Db 1681 GTATGCAATTTGAAGTCAATCAAAAAGTGCACCTTCTGTCTGTAAGATTTTATTTCAA 1740
Qy 1741 GCAAAATATTTATGACCTCAACAAAGAAAGAACCATCTTTTGTAAAGTTTCAACGTAGTAA 1800
Db 1741 GCAAAATATTTATGACCTCAACAAAGAAAGAACCATCTTTTGTAAAGTTTCAACGTAGTAA 1800
Qy 1801 CATAAAGTAAATGCTACTCTCTGATCAAAAGCACCTTGAATGGAAGTCCGAGTCTTTTATG 1860
Db 1801 CATAAAGTAAATGCTACTCTCTGATCAAAAGCACCTTGAATGGAAGTCCGAGTCTTTTATG 1860
Qy 1861 TGTTTTGCAAGGGAATGAATCCATTTATTTTATTTAGACTTTTAACTTTCAACTTAAAT 1920
Db 1861 TGTTTTGCAAGGGAATGAATCCATTTATTTTATTTAGACTTTTAACTTTCAACTTAAAT 1920
Qy 1921 TAGCATCTGGCTAAGGCATCAATTTTCACTCCATTTCTTGGTTTTGTATTTGTTAAAAA 1980
Db 1921 TAGCATCTGGCTAAGGCATCAATTTTCACTCCATTTCTTGGTTTTGTATTTGTTAAAAA 1980
Qy 1981 AATAACATCTCTTTTCATCTAGCTCCATAATTTGCAAGGGAAGAGATTAGCATGAAAGTAA 2040
Db 1981 AATAACATCTCTTTTCATCTAGCTCCATAATTTGCAAGGGAAGAGATTAGCATGAAAGTAA 2040
Qy 2041 TCTGAAACACAGTCACTGTCTGTCANCTGTAGAAAGTTGATTTCTCATGCACTNCAATACTT 2100
Db 2041 TCTGAAACACAGTCACTGTCTGTCANCTGTAGAAAGTTGATTTCTCATGCACTNCAATACTT 2100
Qy 2101 CCAAGAGTCACTATGCGGGATTTTTCATTTTATAGGCTTTTCAAGTGTGTTTCTCTGGAAT 2160
Db 2101 CCAAGAGTCACTATGCGGGATTTTTCATTTCTAGGCTTTTCAAGTGTGTTTCTCTGGAAT 2160
Qy 2161 TC 2162
Db 2161 TC 2162

RESULT 6

US-09-883-839-5
; Sequence 5, Application US/09883839
; Publication No. US20040209250A1
; GENERAL INFORMATION:
; APPLICANT: Kreek, Mary Jeanne
; TITLE OF INVENTION: Alleles of the Human Mu Opioid Receptor,
; TITLE OF INVENTION: Diagnostic Methods Using Said Alleles, and Methods of
; TITLE OF INVENTION: Treatment Based Thereon
; FILE REFERENCE: 600-1-266N
; CURRENT APPLICATION NUMBER: US/09/883,839
; CURRENT FILING DATE: 2001-06-18
; PRIOR APPLICATION NUMBER: 60/212,225
; PRIOR FILING DATE: 2000-06-16
; NUMBER OF SEQ ID NOS: 10
; SOFTWARE: fastseq for Windows Version 4.0
; SEQ ID NO 5
; LENGTH: 2162
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:

; NAME/KEY: misc.feature									
; LOCATION: 2063_2091									
; OTHER INFORMATION: n = A,T,C or G									
US-09-883-839-5									
Query Match 99.8%; Score 2156.8; DB 3; Length 2162;									
Best Local Similarity 99.9%; Pred. No. 0;									
Matches 2160; Conservative 0; Mismatches 2; Indels 0; Gaps 0;									
QY	1	GGAAATTCGGGCTATAGCGAGAGAGAAATGTCAAGATGCTCAGCTCGGTGCTCCCTCCGGCTGA	60						
DB	1	GGAAATTCGGGCTATAGCGAGAGAGAAATGTCAAGATGCTCAGCTCGGTGCTCCCTCCGGCTGA	60						
QY	61	CGCTCTCTCTGTCTCAGCCAGGACTGGTTCTGTTAAGAAACAGCAGGAGCTGTGCAGC	120						
DB	61	CGCTCTCTCTGTCTCAGCCAGGACTGGTTCTGTTAAGAAACAGCAGGAGCTGTGCAGC	120						
QY	121	GGCGAAAGGAAGCGGCTGAGGCGCTTTGGAAACCGAAAAAGTCTCGGTGCTCCTGGCTACCT	180						
DB	121	GGCGAAAGGAAGCGGCTGAGGCGCTTTGGAAACCGAAAAAGTCTCGGTGCTCCTGGCTACCT	180						
QY	181	CGCACAGCGGTGCCCGCGCGCTCAGTACCAATGGACAGCAGCGCTGCCCGCCACGAAACG	240						
DB	181	CGCACAGCGGTGCCCGCGCGCTCAGTACCAATGGACAGCAGCGCTGCCCGCCACGAAACG	240						
QY	241	CGAGCAATTGCACGTGATGCTTGGCGTACTCAAGTTGCTCCCGAGCAGCCAGCCCGGTT	300						
DB	241	CGAGCAATTGCACGTGATGCTTGGCGTACTCAAGTTGCTCCCGAGCAGCCAGCCCGGTT	300						
QY	301	CTGGGTCAACTTGTCCCACTAGATGGCAACCTGTCCGACCCATGCGGTGCCGAAACGGCA	360						
DB	301	CTGGGTCAACTTGTCCCACTAGATGGCAACCTGTCCGACCCATGCGGTGCCGAAACGGCA	360						
QY	361	CCAACCTGGCGGGAGAGACAGCCTGTGCCCTCCGACCGGCACTGCCCTCATGATCACGG	420						
DB	361	CCAACCTGGCGGGAGAGACAGCCTGTGCCCTCCGACCGGCACTGCCCTCATGATCACGG	420						
QY	421	CCATCAGATCATGGGCCCTTACTCCATCGTGTGCGGTGGGGCTCTTCGGAAACTTCC	480						
DB	421	CCATCAGATCATGGGCCCTTACTCCATCGTGTGCGGTGGGGCTCTTCGGAAACTTCC	480						
QY	481	TGCTCATGTATGTGATTTGTCAGATACACCAAGATGAAGACTGCCACCAACATCTACATTT	540						
DB	481	TGCTCATGTATGTGATTTGTCAGATACACCAAGATGAAGACTGCCACCAACATCTACATTT	540						
QY	541	TCAAACCTTGTCTGGCAGATGTCCTTAGCCACCACTACCTGCGCCCTTCCAGAGTGTGAATT	600						
DB	541	TCAAACCTTGTCTGGCAGATGTCCTTAGCCACCACTACCTGCGCCCTTCCAGAGTGTGAATT	600						
QY	601	ACCTAATGGGAACATGGCCATTTGGAAACCATCTTTGCAAGATAGTATCCTCCATAGATT	660						
DB	601	ACCTAATGGGAACATGGCCATTTGGAAACCATCTTTGCAAGATAGTATCCTCCATAGATT	660						
QY	661	ACTATAACATGTTTACCAGCATATTACCCCTCTGCACCATGAGTGTGTGATCGATACATTG	720						
DB	661	ACTATAACATGTTTACCAGCATATTACCCCTCTGCACCATGAGTGTGTGATCGATACATTG	720						
QY	721	CAGTCTGCCACCCCTGTCAAGGCCCTTAGATTTCGGTACTCCCGGAAATGCCAAATATCA	780						
DB	721	CAGTCTGCCACCCCTGTCAAGGCCCTTAGATTTCGGTACTCCCGGAAATGCCAAATATCA	780						
QY	781	ATGCTGCAACTGGATCTCTTTCAGCCGATGGTCTTCTGTAATGTTTCATGGCTACAA	840						
DB	781	ATGCTGCAACTGGATCTCTTTCAGCCGATGGTCTTCTGTAATGTTTCATGGCTACAA	840						
QY	841	CAAAATACAGCGAAGGTTTCCATAGATTGTACACTAACATTTCTCTCATCCAAACCTGGTACT	900						
DB	841	CAAAATACAGCGAAGGTTTCCATAGATTGTACACTAACATTTCTCTCATCCAAACCTGGTACT	900						
QY	901	GGGAAACCTCGTGAAGATCTGTGTTTTCATCTTTCGCTTCATATTATGCCAGTGCATCA	960						
DB	901	GGGAAACCTCGTGAAGATCTGTGTTTTCATCTTTCGCTTCATATTATGCCAGTGCATCA	960						

QY	961	TTACCGTGTGCTATGAGCTGATGATCTTTGGCGCTCAAGAGTGTCCGATGCTCTCTGGCT	1020
DB	961	TTACCGTGTGCTATGAGCTGATGATCTTTGGCGCTCAAGAGTGTCCGATGCTCTCTGGCT	1020
QY	1021	CCAAAGAAAAGGACAGGAATCTTCGAAGGATCACAGGATGGTGTGGTGGTGGCTG	1080
DB	1021	CCAAAGAAAAGGACAGGAATCTTCGAAGGATCACAGGATGGTGTGGTGGTGGCTG	1080
QY	1081	TGTTTCATCGTCTGCTGGACTCCCATTCACATTTAGTCAATTAAGCGCTTGGTTACAA	1140
DB	1081	TGTTTCATCGTCTGCTGGACTCCCATTCACATTTAGTCAATTAAGCGCTTGGTTACAA	1140
QY	1141	TCCCAAGAACTAGTTCAGACTGTTTCTTGGCACTTCTGCAATTTGCTTAGGTACACAA	1200
DB	1141	TCCCAAGAACTAGTTCAGACTGTTTCTTGGCACTTCTGCAATTTGCTTAGGTACACAA	1200
QY	1201	ACAGTGTGCTCAACCCAGTCTTTTATGCAATTTCTGATGAAACCTTCAACCGATGTTCA	1260
DB	1201	ACAGTGTGCTCAACCCAGTCTTTTATGCAATTTCTGATGAAACCTTCAACCGATGTTCA	1260
QY	1261	GAGAGTCTGTATCCCACTCTTCCACATTTAGCAATTTCTGCAATTTGCTTAGGTACACAA	1320
DB	1261	GAGAGTCTGTATCCCACTCTTCCACATTTAGCAATTTCTGCAATTTGCTTAGGTACACAA	1320
QY	1321	AGAACACTAGAGACCACTCCCTCCAGGCAATACAGTGGATAGAACTAATCATCAGCTAG	1380
DB	1321	AGAACACTAGAGACCACTCCCTCCAGGCAATACAGTGGATAGAACTAATCATCAGCTAG	1380
QY	1381	AAAAATCTGGAAGCAGAACTGCTTCGGTTCCTTAAACAGGCTCTCATGCCATTTCCGACCTT	1440
DB	1381	AAAAATCTGGAAGCAGAACTGCTTCGGTTCCTTAAACAGGCTCTCATGCCATTTCCGACCTT	1440
QY	1441	CACCAAGCTTAGAGCCCACTGATGTGGAAGCAGGTTGCTTCAAGAAATGTTAGGAGG	1500
DB	1441	CACCAAGCTTAGAGCCCACTGATGTGGAAGCAGGTTGCTTCAAGAAATGTTAGGAGG	1500
QY	1501	CTCTAATCTCTAGGAAAGTGCTTACTTTTAGGTCTCAACACCTCTTCTCTCTGGCCA	1560
DB	1501	CTCTAATCTCTAGGAAAGTGCTTACTTTTAGGTCTCAACACCTCTTCTCTCTGGCCA	1560
QY	1561	CTCTGCTCTGCACTTTAGAGGACAGCCAAAGTAAAGTGGAGCATTTGGAGGAAAGGAA	1620
DB	1561	CTCTGCTCTGCACTTTAGAGGACAGCCAAAGTAAAGTGGAGCATTTGGAGGAAAGGAA	1620
QY	1621	TATACACACCCAGGAGTCCAGTTTGTGCAAGACACCCAGTGGAAACCAACCCATCGTG	1680
DB	1621	TATACACACCCAGGAGTCCAGTTTGTGCAAGACACCCAGTGGAAACCAACCCATCGTG	1680
QY	1681	GTATGTGAATTTGAAGTTCATATAAAAGTGACCCCTTCTGTGTGAAGATTTTATTTTCAA	1740
DB	1681	GTATGTGAATTTGAAGTTCATATAAAAGTGACCCCTTCTGTGTGAAGATTTTATTTCAA	1740
QY	1741	GCAATATTTATGACCTCAACAAAGAAACCATCTTTTGTAAAGTTCACCGTAGTAACA	1800
DB	1741	GCAATATTTATGACCTCAACAAAGAAACCATCTTTTGTAAAGTTCACCGTAGTAACA	1800
QY	1801	CATAAGTAAATGCTTACCTCTGATCAAGCACCTTCAATGGAGGTCCTGATCTTTTAG	1860
DB	1801	CATAAGTAAATGCTTACCTCTGATCAAGCACCTTCAATGGAGGTCCTGATCTTTTAG	1860
QY	1861	TGTTTTTGAAGGGAATGAATCCATTTATTTTAGACTTTTAACTTCAACTTAAAT	1920
DB	1861	TGTTTTTGAAGGGAATGAATCCATTTATTTTAGACTTTTAACTTCAACTTAAAT	1920
QY	1921	TAGCATCTGGCTAAGGCATCAATTTTCACTTCTTGGTGTGTTTGTATTTTAAAAA	1980
DB	1921	TAGCATCTGGCTAAGGCATCAATTTTCACTTCTTGGTGTGTTTGTATTTTAAAAA	1980
QY	1981	AATAACATCTTTTCACTTAGCTCCATAATTGCAAGGAGAGATTTAGCATGAAGGTAA	2040
DB	1981	AATAACATCTTTTCACTTAGCTCCATAATTGCAAGGAGAGATTTAGCATGAAGGTAA	2040
QY	2041	TCTGAAACACAGTCTATGTGTCTCANCTGTAGAAAGGTTGATTTCTCATGCATNCAATCTT	2100

Db 2041 TCTGARACAGTCATGTGCANCTGTAGAAAGGTTGATTTCTCATGCACINCAATACTT 2100
Qy 2101 CCAAAGAGTCATCATGGGGGATTTTCATTTCTTAGGCTTTAGGCTTTAGTGGTTTCTCTGGAAT 2160
Db 2101 CCAAAGAGTCATCATGGGGGATTTTCATTTCTTAGGCTTTAGTGGTTTCTCTGGAAT 2160
Qy 2161 TC 2162
Db 2161 TC 2162

RESULT 7
US-09-883-839-7
; Sequence 7, Application US/09883839
; Publication No. US20040209250A1
; GENERAL INFORMATION:
; APPLICANT: Kreek, Mary Jeanne
; APPLICANT: LaForge, Karl Steven
; TITLE OF INVENTION: Alleles of the Human Mu Opioid Receptor,
; TITLE OF INVENTION: Diagnostic Methods Using Said Alleles, and Methods of
; TITLE OF INVENTION: Treatment Based Thereon
; FILE REFERENCE: 600-1-266N
; CURRENT APPLICATION NUMBER: US/09/883,839
; CURRENT FILING DATE: 2001-06-18
; PRIOR APPLICATION NUMBER: 60/212,225
; PRIOR FILING DATE: 2000-06-16
; NUMBER OF SEQ ID NOS: 10
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 7
; LENGTH: 2162
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: 2063..2091
; OTHER INFORMATION: n = A,T,C or G

US-09-883-839-7
Query Match 99.8%; Score 2156.8; DB 3; Length 2162;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 2160; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 GGAATTCGGGTATAGGCAGAGGAGATGTGATGCTCAGCTCGGTCCCTCCGCTGA 60
Db 1 GGAATTCGGGTATAGGCAGAGGAGATGTGATGCTCAGCTCGGTCCCTCCGCTGA 60
Qy 61 CGCTCCTCTGCTCAGCCAGGACTGGTTTCTGTAAGAAACAGCAGGAGCTGTGGCAGC 120
Db 61 CGCTCCTCTGCTCAGCCAGGACTGGTTTCTGTAAGAAACAGCAGGAGCTGTGGCAGC 120
Qy 121 GCGGAAAGGAAGCGGCTGAGCGCTTGAAACCCGAAAGTCTCGGTGCTCTGCTACCT 180
Db 121 GCGGAAAGGAAGCGGCTGAGCGCTTGAAACCCGAAAGTCTCGGTGCTCTGCTACCT 180
Qy 181 CGCAGCGGTGCGGCGCGCGCTCAGTACCATGGACAGCAGCGCTGCCCCCAGCAAG 240
Db 181 CGCAGCGGTGCGGCGCGCGCTCAGTACCATGGACAGCAGCGCTGCCCCCAGCAAG 240
Qy 241 CCAGCAATTTGCACTGATGCTTGGCGTACTCAAGTTGGCCCGCCAGCACCCAGCCCGGTT 300
Db 241 CCAGCAATTTGCACTGATGCTTGGCGTACTCAAGTTGGCCCGCCAGCACCCAGCCCGGTT 300
Qy 301 CTTGGGTCAACTTGTCCCACTTAGATGGCAACCTGTCCGACCCCATGGGGTCCGAACCGCA 360
Db 301 CTTGGGTCAACTTGTCCCACTTAGATGGCAACCTGTCCGACCCCATGGGGTCCGAACCGCA 360
Qy 361 CCAACCTGGGGGAGAGACAGCCTGTGCTCCGACCGGAGTCCCTCCATGATCAGG 420
Db 361 CCAATCTGGGGGAGAGACAGCCTGTGCTCCGACCGGAGTCCCTCCATGATCAGG 420
Qy 421 CCATCAGCATATGSCCTCTACTCCATCGTGTGGTGGGTCTTTTCGGAACCTTCC 480

Db 421 CCATCAGATCATGGCCCTCTACTCCTCATCGTGTGCGTGGGGCTCTTCGGAAACTTCC 480
Qy 481 TGGTCATGTATGTGATTTGTGATGATACCAAGATGAAGACTGCGACCAACATCTACATTT 540
Db 481 TGGTCATGTATGTGATTTGTGATGATACCAAGATGAAGACTGCGACCAACATCTACATTT 540
Qy 541 TCAACCTTGTCTGTGGCAGATGCCCTTAGCCACCACTACCTTCCAGAGTGTGAAT 600
Db 541 TCAACCTTGTCTGTGGCAGATGCCCTTAGCCACCACTACCTTCCAGAGTGTGAAT 600
Qy 601 ACCTAATGGACATGCGCATTTGGAAACCATCTTTGGCAAGATAGTAGATCTCCATAGATT 660
Db 601 ACCTAATGGACATGCGCATTTGGAAACCATCTTTGGCAAGATAGTAGATCTCCATAGATT 660
Qy 661 ACTATAACATGTTTACCAGCATATTCAACCTCTGACCATGAGTGTGTGATCGATACATTG 720
Db 661 ACTATAACATGTTTACCAGCATATTCAACCTCTGACCATGAGTGTGTGATCGATACATTG 720
Qy 721 CAGTCTGCCACCTGTCAAGGCTTGAATTTCCGTACTCCCGAAATGCCAAATATATCA 780
Db 721 CAGTCTGCCACCTGTCAAGGCTTGAATTTCCGTACTCCCGAAATGCCAAATATATCA 780
Qy 781 ATGTCTGCAACTGGATCTCTCTCAGCCATTTGGTCTTCCCTGTAATGTTTCATGCTACAA 840
Db 781 ATGTCTGCAACTGGATCTCTCTCAGCCATTTGGTCTTCCCTGTAATGTTTCATGCTACAA 840
Qy 841 CAAATACAGGCAAGGTTCCATAGATTGTACATAACATTTCTCTCAACCTGGTACT 900
Db 841 CAAATACAGGCAAGGTTCCATAGATTGTACATAACATTTCTCTCAACCTGGTACT 900
Qy 901 GGGAAAACTCTGTGAAGATCTGTGTTTTCATCTTCCGCTTCAATATGCCAGTGTCTATCA 960
Db 901 GGGAAAACTCTGTGAAGATCTGTGTTTTCATCTTCCGCTTCAATATGCCAGTGTCTATCA 960
Qy 961 TTACCGTGTCTATGACTGATCTTGGCGCTCAAGAGTGTCCGATGCTCTCTGGCT 1020
Db 961 TTACCGTGTCTATGACTGATCTTGGCGCTCAAGAGTGTCCGATGCTCTCTGGCT 1020
Qy 1021 CCAAGAAAAAGGACAGGAATCTTCGAAGGATCACAGGATGGTGTGGTGGTGGCTG 1080
Db 1021 CCAAGAAAAAGGACAGGAATCTTCGAAGGATCACAGGATGGTGTGGTGGTGGCTG 1080
Qy 1081 TGTTCATCGTCTGTGACTCCCATTACATTTACGTCATCAATAAGCTTGGTTACAA 1140
Db 1081 TGTTCATCGTCTGTGACTCCCATTACATTTACGTCATCAATAAGCTTGGTTACAA 1140
Qy 1141 TCCAGAAACTAGCTTCCAGACTGTTTCTTGGCACTTCTGCATTTGCTTAGGTACACAA 1200
Db 1141 TCCAGAAACTAGCTTCCAGACTGTTTCTTGGCACTTCTGCATTTGCTTAGGTACACAA 1200
Qy 1201 ACAGCTGCTCAACCCAGTCTTTTATGCAATTTCTGATGAAACTTCAAAACGATGCTTCA 1260
Db 1201 ACAGCTGCTCAACCCAGTCTTTTATGCAATTTCTGATGAAACTTCAAAACGATGCTTCA 1260
Qy 1261 GAGAGTTCTGTATCCCAACCTCTTCCAACTTGGACAAACAACTCCACTCGAATTCGTC 1320
Db 1261 GAGAGTTCTGTATCCCAACCTCTTCCAACTTGGACAAACAACTCCACTCGAATTCGTC 1320
Qy 1321 AGAACACTAGAGACACCCCTCCAGCCCAATACAGTGGATAGNACTAATCATCAGCTAG 1380
Db 1321 AGAACACTAGAGACACCCCTCCAGCCCAATACAGTGGATAGNACTAATCATCAGCTAG 1380
Qy 1381 AATACTGGAAGCAGAAACTGCTCCGTTGCCCTAAACAGGGTCTCATGCGCAATTCGACCTT 1440
Db 1381 AATACTGGAAGCAGAAACTGCTCCGTTGCCCTAAACAGGGTCTCATGCGCAATTCGACCTT 1440
Qy 1441 CACCAAGCTTAGAAGCCACCATGTATGTGGAAGCAGGTTGCTTCAAGAAATGTGTAGGAG 1500
Db 1441 CACCAAGCTTAGAAGCCACCATGTATGTGGAAGCAGGTTGCTTCAAGAAATGTGTAGGAG 1500
Qy 1501 CTCTAATCTCTAGGAAAGTGCCTACTTTTAGGTCTCAACCTCTTCTCTCTGCGCA 1560
Db 1501 CTCTAATCTCTAGGAAAGTGCCTACTTTTAGGTCTCAACCTCTTCTCTCTGCGCA 1560

1561 CTCTGCTCTGCACATTAGAGGGACAGCCAAAAGTAAAGTGGAGCATTTGGAGGAA 1620
1561 CTCTGCTCTGCACATTAGAGGGACAGCCAAAAGTAAAGTGGAGCATTTGGAGGAA 1620
1621 TATACACACCGAGGAGTCCAGTTTGTGCAAGACACCCAGTGAACCAAAACCCATCGTG 1680
1621 TATACACACCGAGGAGTCCAGTTTGTGCAAGACACCCAGTGAACCAAAACCCATCGTG 1680
1681 GTATGTGAATTGAAGTCATCATAAAAGGTGACCCCTTCTGTCTGTAAAGATTTTATTTCAA 1740
1681 GTATGTGAATTGAAGTCATCATAAAAGGTGACCCCTTCTGTCTGTAAAGATTTTATTTCAA 1740
1741 GCAAAATTTATGACCTCAACAAAGAACCACTTTTGTAAAGTTCACCGTAGTAACA 1800
1741 GCAAAATTTATGACCTCAACAAAGAACCACTTTTGTAAAGTTCACCGTAGTAACA 1800
1801 CATAAAGTAAATGCTACCTCTGATCAAAAGCACCTTGAAATGGAAGGTCGAGTCTTTTATAG 1860
1801 CATAAAGTAAATGCTACCTCTGATCAAAAGCACCTTGAAATGGAAGGTCGAGTCTTTTATAG 1860
1861 TGTTTTGCAAGGGAATGAATTCATTTATTTAGACTTTTAACTTCAACTTAAAT 1920
1861 TGTTTTGCAAGGGAATGAATTCATTTATTTAGACTTTTAACTTCAACTTAAAT 1920
1921 TAGCATCTGCTTAAGCATCAATTTTCACTCCATTTCTTGGTTTCTATTTGTTTAAATAA 1980
1921 TAGCATCTGCTTAAGCATCAATTTTCACTCCATTTCTTGGTTTCTATTTGTTTAAATAA 1980
1981 AATAACATCTCTTTATCTAGCTCCATTAATTGCAAGGGAAGAGATTAGCATGAAGGTAA 2040
1981 AATAACATCTCTTTATCTAGCTCCATTAATTGCAAGGGAAGAGATTAGCATGAAGGTAA 2040
2041 TCTGAAACACAGTCATGTGTCACTGTAGAAAAGTTGATTTCTATGCACTNCAAAATCTT 2100
2041 TCTGAAACACAGTCATGTGTCACTGTAGAAAAGTTGATTTCTATGCACTNCAAAATCTT 2100
2101 CCAAGAGTCATCATGGGGATTTTCACTTTAGGCTTTTCACTGGTTTCTTCTGGAAT 2160
2101 CCAAGAGTCATCATGGGGATTTTCACTTTAGGCTTTTCACTGGTTTCTTCTGGAAT 2160
2161 TC 2162
2161 TC 2162

RESULT 8
US-09-883-839-8
; Sequence 8, Application US/09883839
; Publication No. US20040209250A1
; GENERAL INFORMATION:
; APPLICANT: Kreek, Mary Jeanne
; APPLICANT: LaForge, Karl Steven
; TITLE OF INVENTION: Alleles of the Human Mu Opioid Receptor,
; TITLE OF INVENTION: Diagnostic Methods Using Said Alleles, and Methods of
; TITLE OF INVENTION: Treatment Based Thereon
; FILE REFERENCE: 600-1-266N
; CURRENT APPLICATION NUMBER: US/09/883,839
; PRIOR FILING DATE: 2001-06-18
; PRIOR APPLICATION NUMBER: 60/212,225
; PRIOR FILING DATE: 2000-06-16
; NUMBER OF SEQ ID NOS: 10
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 8
; LENGTH: 2162
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: 2063, 2091
; OTHER INFORMATION: n = A,T,C or G

Query Match 99.8%; Score 2156.8; DB 3; Length 2162;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 2160; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
QY 1 GGAATTCGGGCTATAGGCAGAGGAGAAATGTCAAGTCTCAGCTCGGTCCCTCCGCTGA 60
DB 1 GGAATTCGGGCTATAGGCAGAGGAGAAATGTCAAGTCTCAGCTCGGTCCCTCCGCTGA 60
QY 61 CGCTCTCTCTCTCAGCCAGGACTGGTTTCTGTAAGAAACAGCAGGAGAGTCTGCGAGC 120
DB 61 CGCTCTCTCTCTCAGCCAGGACTGGTTTCTGTAAGAAACAGCAGGAGAGTCTGCGAGC 120
QY 121 GCGGAAAAGGAAGCGGCTGAGGCGCTTGGAAACCCGAAAAGCTTCGCTGCTGCTACCT 180
DB 121 GCGGAAAAGGAAGCGGCTGAGGCGCTTGGAAACCCGAAAAGCTTCGCTGCTGCTACCT 180
QY 181 CGCAGACGCGTCCCGCCCGCGCTCAGTACCAATGACAGCAGCGCTGCCCCACGAACG 240
DB 181 CGCAGACGCGTCCCGCCCGCGCTCAGTACCAATGACAGCAGCGCTGCCCCACGAACG 240
QY 241 CCAGCAATTTGCACTGATGCTTGGGGTACTCAAGTTTGGCCCTCCAGCACCAGCCCGGTT 300
DB 241 CCAGCAATTTGCACTGATGCTTGGGGTACTCAAGTTTGGCCCTCCAGCACCAGCCCGGTT 300
QY 301 CTGGGTCAACTTTGTCCCACTTAGATGGCAACTGTGCCACCCATCGGTCCGAAACGCA 360
DB 301 CTGGGTCAACTTTGTCCCACTTAGATGGCAACTGTGCCACCCATCGGTCCGAAACGCA 360
QY 361 CCAACTGGCGGGAGAGACAGCTGTGCTCCGACCGGAGTCCCTTCATGATCAGCG 420
DB 361 CCAACTGGCGGGAGAGACAGCTGTGCTCCGACCGGAGTCCCTTCATGATCAGCG 420
QY 421 CCATCAGCATATGCGCCCTCTACTCCATCGTGTGGTGGGCTCTTCGGAACCTTCC 480
DB 421 CCATCAGCATATGCGCCCTCTACTCCATCGTGTGGTGGGCTCTTCGGAACCTTCC 480
QY 481 TGTCTATGTATGTGATTTGTGAGATACCAAGATGAAGACTGCAACAACTACATTT 540
DB 481 TGTCTATGTATGTGATTTGTGAGATACCAAGATGAAGACTGCAACAACTACATTT 540
QY 541 TCAACCTTCTCTGGCAGATGCTTAGCCACAGTACCTTCCGCTCCCTTCCAGAGTGAAT 600
DB 541 TCAACCTTCTCTGGCAGATGCTTAGCCACAGTACCTTCCGCTCCCTTCCAGAGTGAAT 600
QY 601 ACCTAATGGGAACATGGCCATTTGGAACCACTCTTTGCAAGATAGTATCTCCATAGAT 660
DB 601 ACCTAATGGGAACATGGCCATTTGGAACCACTCTTTGCAAGATAGTATCTCCATAGAT 660
QY 661 ACTATAACATGTTTACAGCATATTTCACTCTTGCAACCATGATGTTGATCGATATG 720
DB 661 ACTATAACATGTTTACAGCATATTTCACTCTTGCAACCATGATGTTGATCGATATG 720
QY 721 CAGTCTGCCACCTGTCAAGGCTTGAATTTCCGTAATCCCGAAATGCCAAATTTATCA 780
DB 721 CAGTCTGCCACCTGTCAAGGCTTGAATTTCCGTAATCCCGAAATGCCAAATTTATCA 780
QY 781 ATGCTCTGCAACTGGATCTCTCTTCCAGCCATTTGCTCTGTAATGTTTCATCGCTACAA 840
DB 781 ATGCTCTGCAACTGGATCTCTCTTCCAGCCATTTGCTCTGTAATGTTTCATCGCTACAA 840
QY 841 CAAAATACAGGCAAGGTTCCATAGATTTGTACATAAATTTCTCATCCAACTGGTACT 900
DB 841 CAAAATACAGGCAAGGTTCCATAGATTTGTACATAAATTTCTCATCCAACTGGTACT 900
QY 901 GGGAAAACCTCGTGAAGATCTGTGTTTTCATCTTCCCTTCATTTATGCCAGTCTCATCA 960
DB 901 GGGAAAACCTCGTGAAGATCTGTGTTTTCATCTTCCCTTCATTTATGCCAGTCTCATCA 960
QY 961 TTACCGTGTCTATGACATGATGATCTTGGCCCTCAAGAGTGTCCGATGCTCTCTGGCT 1020
DB 961 TTACCGTGTCTATGACATGATGATCTTGGCCCTCAAGAGTGTCCGATGCTCTCTGGCT 1020
QY 1021 CCAAGAAAAGGACAGGAATCTTTCGAAGGATCACCAGGATGGTGTGGTGGTGGCTG 1080

Db 1021 CCAAGAAAGGAGCAGGAATCTTGAAGGATCACCAGGATGCTGCTGGTGGTGGCTG 1080
Qy 1081 TGTTCATGCTGCTGGAGTCCCAATTCACATTTAGTGCATCATTTAAAGCCTTGGTTACAA 1140
Db 1081 TGTTCATGCTGCTGGAGTCCCAATTCACATTTAGTGCATCATTTAAAGCCTTGGTTACAA 1140
Qy 1141 TCCAGAAACACGTTCCAGACTGTTTCTGGCACTTCTGCAATTCGCTAGTTTACACAA 1200
Db 1141 TCCAGAAACACGTTCCAGACTGTTTCTGGCACTTCTGCAATTCGCTAGTTTACACAA 1200
Qy 1201 ACAGTGCCTCAACCCAGTCCCTTTATGCAATTTCTGGATGAAACCTTCAAACGATGCTTCA 1260
Db 1201 ACAGTGCCTCAACCCAGTCCCTTTATGCAATTTCTGGATGAAACCTTCAAACGATGCTTCA 1260
Qy 1261 GAGAGTTCGTATCCCAACCTCTTCCCAACATTTAGACCAACAACTCCCACTCGAATTCGTC 1320
Db 1261 GAGAGTTCGTATCCCAACCTCTTCCCAACATTTAGACCAACAACTCCCACTCGAATTCGTC 1320
Qy 1321 AGAACACTAGAGACACCCCTCCAGGCAATACAGTGGATAGAACTAATCATCAGCTAG 1380
Db 1321 AGAACACTAGAGACACCCCTCCAGGCAATACAGTGGATAGAACTAATCATCAGCTAG 1380
Qy 1381 AAAATCTGGAAGCAGAACTGCTCGGTTGCCCTTAACAGGGTCTCATGCCATTCGACCTT 1440
Db 1381 AAAATCTGGAAGCAGAACTGCTCGGTTGCCCTTAACAGGGTCTCATGCCATTCGACCTT 1440
Qy 1441 CACCAAGCTTAGAACCCACCATGATATGTGGAAGCAGGTTGCTTCAAGATGTAGGAGG 1500
Db 1441 CACCAAGCTTAGAACCCACCATGATATGTGGAAGCAGGTTGCTTCAAGATGTAGGAGG 1500
Qy 1501 CTCTAATTTCTAGGAAAGTGCCTACTTTTAAAGTGCATCCAACTCTTCTCTCGGCCA 1560
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Db 1561 CTCTGCTCTGCACATTTAGAGGAGACAGCCAAAGTAAAGTGGAGCAATTTGGAAGGAAGGAA 1620
Qy 1621 TATACCAACCCAGAGAGTCCAGTTTGTGGAAGACACCCAGTGGAAACCAAAACCCATCGTG 1680
Db 1621 TATACCAACCCAGAGAGTCCAGTTTGTGGAAGACACCCAGTGGAAACCAAAACCCATCGTG 1680
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Db 1681 GTATGTGAATTTGAAGTGCATATAAGGTGACCTTCTGCTGTAAGATTTTATTTTCAA 1740
Qy 1741 GCAAAATATTTATGACCTCAACAAAGAAAGAACATCTTTTGTAAAGTTCACCGTAGTAACA 1800
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Db 1801 CATAAAGTAAATGCTACCTCTGATCAAGACACCTTTGAATGGAAGTCCGAGTCTTTTATAG 1860
Qy 1861 TGTTTTTCGAAGGGAATGAATCCATTTATTTAGACTTTTAACTTTCACTTAAAT 1920
Db 1861 TGTTTTTCGAAGGGAATGAATCCATTTATTTAGACTTTTAACTTTCACTTAAAT 1920
Qy 1921 TAGCATCTGGCTTAAGGCATCATTTTCACTCTCAATTTTGTGTTTGTATTTGTTAAAAAA 1980
Db 1921 TAGCATCTGGCTTAAGGCATCATTTTCACTCTCAATTTTGTGTTTGTATTTGTTAAAAAA 1980
Qy 1981 AATAACATCTCTTTTATCTAGTCCATTAATTGCAAGGGAAGAGATTTAGCATGAAGAGTAA 2040
Db 1981 AATAACATCTCTTTTATCTAGTCCATTAATTGCAAGGGAAGAGATTTAGCATGAAGAGTAA 2040
Qy 2041 TCTGAAACACAGTGCATGTGCATCTGTAAGAGGTTGATTTCTCATGCACTNCAATACTT 2100
Db 2041 TCTGAAACACAGTGCATGTGCATCTGTAAGAGGTTGATTTCTCATGCACTNCAATACTT 2100
Qy 2101 CCAAGAGTGCATCATGGGGGATTTTTCATTTAGGCTTTTCACTGTTTGTCTCTGGAAAT 2160

Db 2101 CCAAGAGTGCATCATGGGGGATTTTTCATTTAGGCTTTTCACTGTTTGTCTCTGGAAAT 2160
Qy 2161 TC 2162
Db 2161 TC 2162
RESULT 9
US-09-883-839-9
; Sequence 9, Application US/09883839
; Publication No. US20040209250A1
; GENERAL INFORMATION:
; APPLICANT: Kreek, Mary Jeanne
; APPLICANT: LaForge, Karl Steven
; TITLE OF INVENTION: Alleles of the Human Mu Opioid Receptor,
; TITLE OF INVENTION: Diagnostic Methods Using Said Alleles, and Methods of
; TITLE OF INVENTION: Treatment Based Thereon
; FILE REFERENCE: 600-1-266N
; CURRENT APPLICATION NUMBER: US/09/883,839
; CURRENT FILING DATE: 2001-06-18
; PRIOR APPLICATION NUMBER: 60/212,225
; PRIOR FILING DATE: 2000-06-16
; NUMBER OF SEQ ID NOS: 10
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 9
; LENGTH: 2165
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: 2066, 2094
; OTHER INFORMATION: n = A,T,C or G
US-09-883-839-9
Query Match 99.2%; Score 2145.4; DB 3; Length 2165;
Best Local Similarity 99.8%; Pred. No. 0;
Matches 2161; Conservative 0; Mismatches 1; Indels 3; Gaps 1;
Qy 1 GGAATTCGGCTATAGGAGAGGAGAAATGTACAGATGCTCAGCTCGTCCCTCCGCTTGA 60
Db 1 GGAATTCGGCTATAGGAGAGGAGAAATGTACAGATGCTCAGCTCGTCCCTCCGCTTGA 60
Qy 61 CGCTCCTCTCTGCTCAGCCAGGAGTGGTTTCTGTAAGAAACAGCAGGAGCTGTGGCAGC 120
Db 61 CGCTCCTCTCTGCTCAGCCAGGAGTGGTTTCTGTAAGAAACAGCAGGAGCTGTGGCAGC 120
Qy 121 GGCAGAAAGGAGCGGCTGAGCGCTTGGAAACCCGAAAGTCTCGTGTCTCTGCTACCT 180
Db 121 GGCAGAAAGGAGCGGCTGAGCGCTTGGAAACCCGAAAGTCTCGTGTCTCTGCTACCT 180
Qy 181 GGCAGCGGTGCGCGCCGCGCTCAGTACATGGACAGCAGCGCTGCCCCCAGAAACG 240
Db 181 GGCAGCGGTGCGCGCCGCGCTCAGTACATGGACAGCAGCGCTGCCCCCAGAAACG 240
Qy 241 CCAGCAATTTGACATGATGCTTGGCGTACTCAAGTTGCTCCCGAGCACCCAGCCCGGTT 300
Db 241 CCAGCAATTTGACATGATGCTTGGCGTACTCAAGTTGCTCCCGAGCACCCAGCCCGGTT 300
Qy 301 CCTGGGTCAACTTGTCCCACTTAGATGGCAACCTGTCCGACCCATGCGGTCCGACCCGCA 360
Db 301 CCTGGGTCAACTTGTCCCACTTAGATGGCAACCTGTCCGACCCATGCGGTCCGACCCGCA 360
Qy 361 CCAACCTGGGCGGAGAGACAGCTGTGCGCTCCGAC---CGGAGTCCCTCCATGATCA 417
Db 361 CCAACCTGGGCGGAGAGACAGCTGTGCGCTCCGAC---CGGAGTCCCTCCATGATCA 420
Qy 418 CGGCGATCAGCATCATGCGCTCTTACTTCCATCGTGTGGTGGGCTCTTCGGAACCT 477
Db 421 CGGCGATCAGCATCATGCGCTCTTACTTCCATCGTGTGGTGGGCTCTTCGGAACCT 480
Qy 478 TCCTGGTGCATGTATGTGATGTGATGATGATGATGATGATGATGATGATGATGATGATGAT 537
Db 481 TCCTGGTGCATGTATGTGATGTGATGATGATGATGATGATGATGATGATGATGATGATGAT 540

QY 538 TTTTCAACCTTGCTCTGGCAGATGCCCTTAGCCACCAGTACCCCTGCCCTCCAGAGTGA 597
Db 541 TTTTCAACCTTGCTCTGGCAGATGCCCTTAGCCACCAGTACCCCTGCCCTCCAGAGTGA 600
QY 598 ATTACCTAATGGGAACAATGGCCATTTTGGAAACCATCTCTTGGCAAGATAGTATCTCCATAG 657
Db 601 ATTACCTAATGGGNAACATGGCCATTTTGGAAACCATCTCTTGGCAAGATAGTATCTCCATAG 660
QY 658 ATTACTATAACATGTTTCCAGGATATTAACCTCTGACCATGAGTGTGATCGATAC 717
Db 661 ATTACTATAACATGTTTCCAGGATATTAACCTCTGACCATGAGTGTGATCGATAC 720
QY 718 TTGCAGTCTGCCACCCGTCAAGSCCTTAGATTTCCGTACTCCCGGAATGCCAAATTA 777
Db 721 TTGCAGTCTGCCACCCGTCAAGSCCTTAGATTTCCGTACTCCCGGAATGCCAAATTA 780
QY 778 TCAATGCTGCAACTGGATCCTCTCTTCAAGCCATTTGGTCTTCTGTAATGTTTCATGGCTA 837
Db 781 TCAATGCTGCAACTGGATCCTCTCTTCAAGCCATTTGGTCTTCTGTAATGTTTCATGGCTA 840
QY 838 CAACAAATAACAGGCAAGGTTCCATAGATTGTACATTAACATTTCTCTCATCCAACTGGT 897
Db 841 CAACAAATAACAGGCAAGGTTCCATAGATTGTACATTAACATTTCTCTCATCCAACTGGT 900
QY 898 ACTGGGAACCTCGTGAAGATCTGTGTTTTCATCTTCCGCTTCATTTATGCGCAGTCTCA 957
Db 901 ACTGGGAACCTCGTGAAGATCTGTGTTTTCATCTTCCGCTTCATTTATGCGCAGTCTCA 960
QY 958 TCATTACCGTGTCTATGACTGATGATCTTGGCCCTCAAGAGTGTCCGATGCTCTCTG 1017
Db 961 TCATTACCGTGTCTATGACTGATGATCTTGGCCCTCAAGAGTGTCCGATGCTCTCTG 1020
QY 1018 GCTCCAAAGAAAAGGACAGAAATCTTCGAAGGATCACAGGATGGTCTGGTGGTGG 1077
Db 1021 GCTCCAAAGAAAAGGACAGAAATCTTCGAAGGATCACAGGATGGTCTGGTGGTGG 1080
QY 1078 CTGTGTTTCATCTGCTGACCTCCCATTTTCAATTTACGTCATTAAGCCCTTGGTTA 1137
Db 1081 CTGTGTTTCATCTGCTGACCTCCCATTTTCAATTTACGTCATTAAGCCCTTGGTTA 1140
QY 1138 CAATCCAGAAAATACGTTTCCAGACTGTTTCTTGGCACTTCTGCAATTCCTAGGTTACA 1197
Db 1141 CAATCCAGAAAATACGTTTCCAGACTGTTTCTTGGCACTTCTGCAATTCCTAGGTTACA 1200
QY 1198 CAACACGCTGCCTCAACCCAGTCTTTATGCAATTTCTGGATGAAAATCTCAACAGATGCT 1257
Db 1201 CAACACGCTGCCTCAACCCAGTCTTTATGCAATTTCTGGATGAAAATCTCAACAGATGCT 1260
QY 1258 TCAGAGATTTCTGTATCCCAACCTCTTCCAAATTTAGCAATTTAGGCAACAAATCTCACTCGAATTC 1317
Db 1261 TCAGAGATTTCTGTATCCCAACCTCTTCCAAATTTAGCAATTTAGGCAACAAATCTCACTCGAATTC 1320
QY 1318 GTCAGAACACTAGAGACCACTCCACGSCCAATACAGTGGATAGAACTTAATCATCAGC 1377
Db 1321 GTCAGAACACTAGAGACCACTCCACGSCCAATACAGTGGATAGAACTTAATCATCAGC 1380
QY 1378 TAGAAAATCTGGAAGCAGAAACTGCTCCGTTGGCTTAAACAGGGTCTCATGCCATTCGGAC 1437
Db 1381 TAGAAAATCTGGAAGCAGAAACTGCTCCGTTGGCTTAAACAGGGTCTCATGCCATTCGGAC 1440
QY 1438 CTTTCAACAAGCTTAGAAGCCACATGTAATGGAAGCAGGTTGCTTCAAGAAATGTGTAGG 1497
Db 1441 CTTTCAACAAGCTTAGAAGCCACATGTAATGGAAGCAGGTTGCTTCAAGAAATGTGTAGG 1500
QY 1498 AGGCTCTAATCTCTAGGAAGTGCCTTACCTTTTAGTTCATCCAACTCTTCTCCTCTG 1557
Db 1501 AGGCTCTAATCTCTAGGAAGTGCCTTACCTTTTAGTTCATCCAACTCTTCTCCTCTG 1560
QY 1558 CCACTCTGCTCTGCACATTTAGAGGGACAGCCAAAGTAAAGTGAGGATTTTGGAAAGAAAG 1617
Db 1561 CCACTCTGCTCTGCACATTTAGAGGGACAGCCAAAGTAAAGTGAGGATTTTGGAAAGAAAG 1620

QY 1618 GAATATACCAACCCAGGAGTCCAGTTTGTGCAAGACACCCAGTGGAAACCAAAACCCATC 1677
Db 1621 GAATATACCAACCCAGGAGTCCAGTTTGTGCAAGACACCCAGTGGAAACCAAAACCCATC 1680
QY 1678 GTGGTATGTAATGAAGTCAATATAAAGGTGAACCTCTGTCTGTCTAAGATTTTATTTT 1737
Db 1681 GTGGTATGTAATGAAGTCAATATAAAGGTGAACCTCTGTCTGTCTAAGATTTTATTTT 1740
QY 1738 CAAGCAATATTTATGACCTCAACAAAGAAAGCAATCTTTTGTAAAGTTTCAACCGTAGTA 1797
Db 1741 CAAGCAATATTTATGACCTCAACAAAGAAAGCAATCTTTTGTAAAGTTTCAACCGTAGTA 1800
QY 1798 ACACATAAAGTAAATGCTACCTCTGATCAAAAGCACCTTGAATGGAAAGTCCGAGTCTTTT 1857
Db 1801 ACACATAAAGTAAATGCTACCTCTGATCAAGCACTTGAATGGAAAGTCCGAGTCTTTT 1860
QY 1858 TAGTGTTTTGAAGGAATGAATCAATTTCTATTTTATGACTTTTAACTTCAACTTAA 1917
Db 1861 TAGTGTTTTGAAGGAATGAATCAATTTCTATTTTATGACTTTTAACTTCAACTTAA 1920
QY 1918 AATTAGCATCTGGCTAAGGCATCATTTTCACTTCCATTTCTTGGTTTCTATTTGTTTAA 1977
Db 1921 AATTAGCATCTGGCTAAGGCATCATTTTCACTTCCATTTCTTGGTTTCTATTTGTTTAA 1980
QY 1978 AAAAATAACATCTCTTTTCACTTAGCTTCCATAATTTGCAAGGGAAGAGATTAGCATGAAAG 2037
Db 1981 AAAAATAACATCTCTTTTCACTTAGCTTCCATAATTTGCAAGGGAAGAGATTAGCATGAAAG 2040
QY 2038 TAATCTGAAACACAGTCACTGTCTCANCCTGTAGAAAAGTTTGTCTCATGCATCNCATA 2097
Db 2041 TAATCTGAAACACAGTCACTGTCTCANCCTGTAGAAAAGTTTGTCTCATGCATCNCATA 2100
QY 2098 CTTCCAAAGAGTCATCATGGGGATTTTTCATTTCTTAGGCTTTTCACTGTTTGTCTCTG 2157
Db 2101 CTTCCAAAGAGTCATCATGGGGATTTTTCATTTCTTAGGCTTTTCACTGTTTGTCTCTG 2160
QY 2158 AATTC 2162
Db 2161 AATTC 2165

RESULT 10

US-10-080-917-12
; Sequence 12, Application US/10080917
; Publication No. US20030054451A1
; GENERAL INFORMATION:
; APPLICANT: Cadet, Patrick
; APPLICANT: Stefano, George B.
; TITLE OF INVENTION: Opiate Receptors
; FILE REFERENCE: 09598-006001
; CURRENT APPLICATION NUMBER: US/10/080,917
; CURRENT FILING DATE: 2002-02-22
; PRIOR APPLICATION NUMBER: US 60/270,479
; PRIOR FILING DATE: 2001-02-22
; PRIOR APPLICATION NUMBER: US 60/336,677
; PRIOR FILING DATE: 2001-12-05
; NUMBER OF SEQ ID NOS: 28
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 12
; LENGTH: 2149
; TYPE: DNA
; ORGANISM: Homo Sapiens
US-10-080-917-12

Query Match 97.5%; Score 2108.8; DB 5; Length 2149;
Best Local Similarity 99.5%; Pred. No. 0;
Matches 2135; Conservative 0; Mismatches 9; Indels 2; Gaps 2;
QY 9 GGCTATAGCAGAGGAGAAATGTCAATGTCTAGTCGGTCCCTCGCCTGAGCGTCTCTC 68
Db 6 GGCTATACGACAGAGGAGAAATGTCAATGTCTAGTCGGTCCCTCGCCTGAGCGTCTCTC 65
QY 69 TCTGTCTCAGCCAGGACTGGTTTCTGTAGAAACAGCAGGAGCTGTGGCAGCGCGAAAG 128

Db 66 TCTGTCTCAGCAGGACTGTGTTTCTGTAAGAAACAGCAGGAGCTGTGGCAGCGCGAAG 125
Qy 129 GAAGCGGCTGAGGGCTTGGAAACCGGAAAAGTCTCGGTGCTCTCTGGTACTCTCGCACAGC 188
Db 126 GAAGCGGCTGAGGGCTTGGAAACCGGAAAAGTCTCGGTGCTCTCTGGTACTCTCGCACAGC 185
Qy 189 GGTGCCGCGCGCGCTCAGTACCATGACAGAGCGCTGCCGCCACGAAACCGCAGCAAT 248
Db 186 GGTGCCGCGCGCGCTCAGTACCATGACAGAGCGCTGCCGCCACGAAACCGCAGCAAT 245
Qy 249 TGCACTGATGCTTTGGGGTACTCAAGTTGGCCCCCAGCACCCAGCCCGGTCTCTGGGTC 308
Db 246 TGCACTGATGCTTTGGGGTACTCAAGTTGGCCCCCAGCACCCAGCCCGGTCTCTGGGTC 305
Qy 309 AACTTGTCCACTTAGATGGCAACCTGTCCGACCCATCGGGTCCGAACCCGACCAACCTG 368
Db 306 AACTTGTCCACTTAGATGGCAACCTGTCCGACCCATCGGGTCCGAACCCGACCAACCTG 365
Qy 369 GGCGGAGAGACAGCGCTGTGCCCTCCGACCGGACGCTCCCTCCATGATCAAGGCCATCAGC 428
Db 366 GGCGGAGAGACAGCGCTGTGCCCTCCGACCGGACGCTCCCTCCATGATCAAGGCCATCAGC 425
Qy 429 ATCATGGCCCTCTACTCCATCGTGTGGTGGTGGGCTCTTCGGAAACTTCTCGGTCTATG 488
Db 426 ATCATGGCCCTCTACTCCATCGTGTGGTGGTGGGCTCTTCGGAAACTTCTCGGTCTATG 485
Qy 489 TATGTGATTTGTGAGATACACCAAGATGAAGATCTGCCACCAACATCTACATTTTCAACCTT 548
Db 486 TATGTGATTTGTGAGATACACCAAGATGAAGATCTGCCACCAACATCTACATTTTCAACCTT 545
Qy 549 GCTCTGGCAGATGCTTAGCACACAGTACCTGCTCCGAGTGGTGAATTTACCTAATG 608
Db 546 GCTCTGGCAGATGCTTAGCACACAGTACCTGCTCCGAGTGGTGAATTTACCTAATG 605
Qy 609 GGAACATGGCCATTTGGAAACCATCTTTGCAAGATAGTGTCTCCATAGATTTACTATAAC 668
Db 606 GGAACATGGCCATTTGGAAACCATCTTTGCAAGATAGTGTCTCCATAGATTTACTATAAC 665
Qy 669 ATGTTACACAGATATTCACCCCTGCAACATGATGTTGATGATGATGATGATGATGATGATG 728
Db 666 ATGTTACACAGATATTCACCCCTGCAACATGATGTTGATGATGATGATGATGATGATGATG 725
Qy 729 CACCTGTCAAGGCTTAGATTTCCGTACTCCCGAAATGCCAAATTTCAATTTCTGTCG 788
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Db 786 AACTGGATCCTCTCTCAGCCATTTGGTCTCTCTGTAATGTTTCATGGCTACAAACAAATAC 845
Qy 849 AGCAAGGTTCCATAGATTGTACTAAACATTTCTCATCAACCTGGTACTGGGAAAC 908
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Db 906 CTCGTGAAGATCTGTGTTTTCTCTGCGCTTCAATATGCGAGTGTCTCATCATTTACCGGTG 965
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Db 1506 CTCTAGGAAAGTGCCTGCTTTTAGGTTCATCCAACTCTTTCTCTCTGCGCACTCTGCTC 1565
Qy 1569 TGCACATTAGAGGAGCAGCCAAAGTAAGTGGAGCATTTTGGAAAGGAAGAAATATACCAAC 1628
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Qy 1629 ACCGAGGAGTCCAGTTTGTGCAAGACACCCAGTGGAAACCAAAACCCATCTGTTGATGTGA 1688
Db 1626 ACCGAGGAGTCCAGTTTGTGCAAGACACCCAGTGGAAACCAAAACCCATCTGTTGATGTGA 1685
Qy 1689 ATTGAAGTCATCATAAAGGTGACCTCTCTGCTGTAAGATTTTATTTTCAAGCAAAATAT 1748
Db 1686 ATTGAAGTCATCATAAAGGTGACCTCTCTGCTGTAAGATTTTATTTTCAAGCAAAATAT 1745
Qy 1749 TTATGACCTCAACAAAGAAAGAACCATCTTTGTTGTAAGTTTCAACCTAGTAAACATAAAGT 1808
Db 1746 TTATGACCTCAACAAAGAAAGAACCATCTTTGTTGTAAGTTTCAACCTAGTAAACATAAAGT 1805
Qy 1809 AAATGCTACCTCTGATCAAGCACCCTTGAATGAAAGTCCGAGTCTTTTTTAGTGTGTTTG 1868
Db 1806 AAATGCTACCTCTGATCAAGCACCCTTGAATGAAAGTCCGAGTCTTTTTTAGTG-TTTTG 1864
Qy 1869 CAAGGGAATGAATCCATTTCTATTTAGACTTTTAACTTCACTTAAATTTAGCATCT 1928
Db 1865 CAAGGGAATGAATCCATTTCTATTTAGACTTTTAACTTCACTTAAATTTAGCATCT 1924
Qy 1929 GGCTAAGGCATCATTTTCACTCTCCATTTCTGTTTGTGTTTGTATTTGTTAAAAAAATAACAT 1988
Db 1925 GGCTAAGGCATCATTTTCACTCTCCATTTCTGTTTGTGTTTGTATTTGTTT-AAAAAATAACAT 1983
Qy 1989 CTCTTTTCATCTAGTCTCCATTAATTGCAAGGGAAGATTAGCATGAAAGGTAATCTGAAAC 2048
Db 1984 CTCTTTTCATCTAGTCTCCATTAATTGCAAGGGAAGATTAGCATGAAAGGTAATCTGAAAC 2043
Qy 2049 ACAGTCATGTCATGTAAGAAAGTGTGATTTCTCATGCACTNCAATTAATCTCCAAAGAG 2108
Db 2044 ACAGTCATGTCATGTAAGAAAGTGTGATTTCTCATGCACTGCAATGCAATCTCCAAAGAG 2103
Qy 2109 TCATCATGCGGGGATTTTTTCATTTCTTAGGCTTTTCAAGTGGTTTGTGTTCC 2154
Db 2104 TCATCATGCGGGGATTTTTTCATTTCTTAGGCTTTTCAAGTGGTTTGTGTTCC 2149

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; APPLICANT: XU, Yuming; DUGGAN, Brendan M.;
; APPLICANT: HONCHELL, Cynthia D.; KALLICK, Deborah A.;
; APPLICANT: BAUGHN, Mariah R.; TANG, Y.Tom;
; APPLICANT: YUE, Henry; BANDMAN, Olga;
; APPLICANT: JONES, Karen Anne; BECHA, Shanya D.;
; APPLICANT: TRAN, Uyen K.; AU-YOUNG, Janice K.;
; APPLICANT: GRIFFIN, Jennifer A.; ZEBARJADIAN, Veganeh;
; APPLICANT: LEE, Ernestine A.; ELLIOTT, Vicki S.;
; APPLICANT: THANGAVELU, Kavitha; RAMKUMAR, Jayalaxmi;
; APPLICANT: LU, Yan; HAFALIA, April J.A.;
; APPLICANT: CHAWLA, Narinder K.; ISON, Craig H.
; APPLICANT: THORNTON, Michael B.; SWARNAKAR, Anita;
; APPLICANT: YONG, Junming; RICHARDSON, Thomas W.;
; APPLICANT: EMERLING, Brooke M.; YAO, Monique G.;
; APPLICANT: COCKS, Benjamin G.; SANJANWALA, Bharati;
; APPLICANT: MASON, Patricia M.; GANDHI, Ameena R.;
; APPLICANT: LI, Joana X.; FORSYTHE, Ian J.;
; APPLICANT: GURURAJAN, Rajagopal; GIETZEN, Kimberly J.
; TITLE OF INVENTION: RECEPTORS AND MEMBRANE-ASSOCIATED PROTEINS
; FILE REFERENCE: PF-0992 USN
; CURRENT APPLICATION NUMBER: US/10/477,714
; CURRENT FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: PCT/US02/15899
; PRIOR FILING DATE: 2002-05-16
; PRIOR APPLICATION NUMBER: 60/292,197
; PRIOR FILING DATE: 2001-05-18
; PRIOR APPLICATION NUMBER: US 60/297,012
; PRIOR FILING DATE: 2001-06-08
; PRIOR APPLICATION NUMBER: US 60/300,582
; PRIOR FILING DATE: 2001-06-21
; PRIOR APPLICATION NUMBER: US 60/300,495
; PRIOR FILING DATE: 2001-06-22
; PRIOR APPLICATION NUMBER: US 60/301,992
; PRIOR FILING DATE: 2001-06-28
; PRIOR APPLICATION NUMBER: US 60/340,542
; PRIOR FILING DATE: 2001-12-14
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PERL Program
; SEQ ID NO 33
; LENGTH: 2279.
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; OTHER INFORMATION: Incyte ID No: 7580043CB1
; US-10-477-714-33

Query Match          97.0%; Score 2097.8; DB 8; Length 2279;
Best Local Similarity 99.4%; Pred. No. 0;
Matches 2135; Conservative 0; Mismatches 9; Indels 3; Gaps 3;

Qy 9 GGCTATAGGCAGAGGAGAATGTGAGATGCTCAGTCCGTCCTCCGCTGAGCGTCTCTC 68
Db 1 GGCTATAGGCAGAGGAGAATGTGAGATGCTCAGTCCGTCCTCCGCTGAGCGTCTCTC 60

Qy 69 TCTGTCTCAGCAGGAGTGTCTGTAGAAACAGCAGGAGCTGTGGCAGCGCCGAAAG 128
Db 61 TCTGTCTCAGCAGGAGTGTCTGTAGAAACAGCAGGAGCTGTGGCAGCGCCGAAAG 120

Qy 129 GAAGCGGCTCAGGCGCTTGGAAACCGGAAAGTCTCGGTGCTCCTCGGTACTCTCGCACAGC 188
Db 121 GAAGCGGCTCAGGCGCTTGGAAACCGGAAAGTCTCGGTGCTCCTCGGTACTCTCGCACAGC 180

Qy 189 GGTGCCCGCCGCGCGTCACTGATGACATGGACAGAGCGTGCCTCCCGCCAGAACCGACGAAT 248
Db 181 GGTGCCCGCCGCGCGTCACTGATGACATGGACAGAGCGTGCCTCCCGCCAGAACCGACGAAT 240

Qy 249 TGCACGTATGCTTGGGCTACTCAAGTTGCCCGCCAGCAGCCAGCCCGGTTCTTGGTTC 308
Db 241 TGCACGTATGCTTGGGCTACTCAAGTTGCCCGCCAGCAGCCAGCCCGGTTCTTGGTTC 300

Qy 309 AACTTGTGCCACTTAGATGGCAACCTGTCCGACCCCATGCGGTCCGAACCGCACAACCTTG 368
Db 1381 GAAGCAGAAACTGCTCGGTGCGCTTAAACAGGGTCTCATGCCATTCGACCTTCCACCAAGC 1440
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1449 TTAAAGCCACCATGTATGTGGAAGCAGGTTGCTTCAAGAATCTGTAGGAGGCTCTAAAT 1508
1441 TTAAAGCCACCATGTATGTGGAAGCAGGTTGCTTCAAGAATGTGTAGGAGGCTCTAAAT 1500
1509 CTCTAGAAAGTGCCTACTTTTAAAGTGCATCCAACTCTTTCTCTCTGCGCACTCTGCTC 1568
1501 CTCTAGAAAGTGCCTACTTTTAAAGTGCATCCAACTCTTTCTCTCTGCGCACTCTGCTC 1560
1569 TGCACATTAGAGGACAGCCAAAGTAAGTGGAGCAATTTGGAAGGAAGAAATATACCA 1628
1561 TGCACATTAGAGGACAGCCAAAGTAAGTGGAGCAATTTGGAAGGAAGAAATATACCA 1619
1629 ACCGAGAGTCCAGTTTGTCAAGACACCCAGTGGAAACCAAAACCCATCGTGTATGTGA 1688
1620 ACCGAGAGTCCAGTTTGTCAAGACACCCAGTGGAAACCAAAACCCATCGTGTATGTGA 1679
1689 ATTGAAGTCAATCAAAAAGTGACCCCTTCTGTCTGTGAAGATTTTATTTTCAAGCAATAT 1748
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1749 TTATGACCTCAACAAAGAACCACTTTTGTGTAGTTTCAACGTAAGTAAACATAAAGT 1808
1740 TTATGACCTCAACAAAGAACCACTTTTGTGTAGTTTCAACGTAAGTAAACATAAAGT 1799
1809 AAATGCTACCTCTGATCAAAAGCACCTTGAATGGAAGTCCGAGTCTTTTGTAGTGTGTTG 1868
1800 AAATGCTACCTCTGATCAAAAGCACCTTGAATGGAAGTCCGAGTCTTTTGTAGTG- TTTTG 1858
1869 CAAGGGAATGAATCCATTTATTTTATTTAGACTTTTAACTTTCAACTTTAAATTTAGCATCT 1928
1859 CAAGGGAATGAATCCATTTATTTTATTTAGACTTTTAACTTTCAACTTTAAATTTAGCATCT 1918
1929 GGCTAAGGCAATCTTTTCACTCACTTTCTTTGTTTGTATTTTAAATAAATAACAT 1988
1919 GGCTAAGGCAATCTTTTCACTCACTTTCTTTGTTTGTATTTTAAATAAATAACAT 1977
1989 CTCTTTTCACTTAGTCCATTAATTTGCAAGGAAGATTTAGCATGAAAGGTAATCTGAAAC 2048
1978 CTCTTTTCACTTAGTCCATTAATTTGCAAGGAAGATTTAGCATGAAAGGTAATCTGAAAC 2037
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2109 TCATCATGGGGATTTTTCATTTCTTAGGCTTTTCAAGTGGTTTGTCTCT 2155
2098 TCATCATGGGGATTTTTCATTTCTTAGGCTTTTCAAGTGGTTTGTCTCT 2144

RESULT-12
US-10-080-917-13
; Sequence 13, Application US/10080917
; Publication No. US20030054451A1
; GENERAL INFORMATION:
; APPLICANT: Cadet, Patrick
; APPLICANT: Stefano, George B.
; TITLE OF INVENTION: Opiate Receptors
; FILE REFERENCE: 09598-006001
; CURRENT APPLICATION NUMBER: US/10/080,917
; CURRENT FILING DATE: 2002-02-22
; PRIOR APPLICATION NUMBER: US 60/270,479
; PRIOR FILING DATE: 2001-02-22
; PRIOR APPLICATION NUMBER: US 60/336,677
; PRIOR FILING DATE: 2001-12-05
; NUMBER OF SEQ ID NOS: 28
; SOFTWARE: Fast-Seq for Windows Version 4.0
; SEQ ID NO 13
; LENGTH: 1473
; TYPE: DNA
; ORGANISM: Homo Sapiens
US-10-080-917-13

Query Match 62.5%; Score 1351.8; DB 5; Length 1473;
Best Local Similarity 99.1%; Pred. No. 0;
Matches 1359; Conservative 0; Mismatches 12; Indels 0; Gaps 0;
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Db 1 GCAGGAGGAATGTCTAGATGCTCAGCTCGGTCCCTCCGCTGACGCTCTCTCTCTCTC 60
QY 77 AGCCAGGACTGGTTTCTGTAAAGAAACAGCAGGAGCTGTGGCAGCGCGGAAAGAGCGGC 136
Db 61 AGCCAGGACTGGTTTCTGTAAAGAAACAGCAGGAGCTGTGGCAGCGCGGAAAGAGCGGC 120
QY 137 TGAGGCGCTGGAAACCCGAAAGTCTCGGTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 196
Db 121 TGAGGCGCTGGAAACCCGAAAGTCTCGGTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 180
QY 197 CCGGCGCTGACGATCATGACAGCAGCGCTGCCCCCAGCAACGCGCAGCAATTTGCACTGA 256
Db 181 CCGGCGCTGACGATCATGACAGCAGCGCTGCCCCCAGCAACGCGCAGCAATTTGCACTGA 240
QY 257 TGCCTTTGGCGTACTCAAGTTGCCCCCAGCACCCAGCCCCCGGTTCTCTGGGTCAACTTGTCT 316
Db 241 TGCCTTTGGCGTACTCAAGTTGCTCCCCAGCACCCAGCCCCCGGTTCTCTGGGTCAACTTGTCT 300
QY 317 CCACCTTAGATGGCAACCTGTCCGACCCATCGGCTCCGAAACCGCACCAACCTTGGCGGGAG 376
Db 301 CCACCTTAGATGGCGACTGTCCGACCCATCGGCTCCGAAACCGCACCAACCTTGGCGGGAG 360
QY 377 AGACGCGCTGTGCGCTCCGACCGGCGAGTCCCTCCATGATCAGGCGCATCAGCATCATGGC 436
Db 361 AGACGCGCTGTGCGCTCCGACCGGCGAGTCCCTCCATGATCAGGCGCATCAGCATCATGGC 420
QY 437 CCTCTACTCTCATCTGTGTGGGTCTTTCGGAATCTTCTCGGTAATCTCTCTCTCTCTCTCT 496
Db 421 CCTCTACTCTCATCTGTGTGGGTCTTTCGGAATCTTCTCGGTAATCTCTCTCTCTCTCTCT 480
QY 497 TGTCTAGATACACCAAGTGAAGATGAGTGTGATGATGATGATGATGATGATGATGATGATG 556
Db 481 TGTCTAGATACACCAAGTGAAGATGAGTGTGATGATGATGATGATGATGATGATGATGATG 540
QY 557 AGATGCTTTAGCCACCATGACCTGCGCTTCCAGAGTGTGAATTTCTCTCTCTCTCTCTCTCT 616
Db 541 AGATGCTTTAGCCACCATGACCTGCGCTTCCAGAGTGTGAATTTCTCTCTCTCTCTCTCTCT 600
QY 617 GCCATTTTGAACCATCTTTCGAAAGTGTGATGATGATGATGATGATGATGATGATGATGAT 676
Db 601 GCCATTTTGAACCATCTTTCGAAAGTGTGATGATGATGATGATGATGATGATGATGATGAT 660
QY 677 CAGCATATTTCACTCTGCAACCATGATGATGATGATGATGATGATGATGATGATGATGATG 736
Db 661 CAGCATATTTCACTCTGCAACCATGATGATGATGATGATGATGATGATGATGATGATGATG 720
QY 737 CAAGGCGCTTAGATTTCCGTAATCTCCCGAAATGCGAAATTTCAATGCTCTGCAACTGGAT 796
Db 721 CAAGGCGCTTAGATTTCCGTAATCTCCCGAAATGCGAAATTTCAATGCTCTGCAACTGGAT 780
QY 797 CCTCTCTTCCAGCATTTGCTCTCTGTAATGTTTATGCTGCTTACAAACAAATATACAGGCAAG 856
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QY 857 TTCCATAGATTTGTACACTAACTTTCTCTCATCAACCTCTGCTACTGGGAAACCTCTGTGAA 916
Db 841 TTCCATAGATTTGTACACTAACTTTCTCTCATCAACCTCTGCTACTGGGAAACCTCTGTGAA 900
QY 917 GATCTGTGTTTCTCATCTTCCGCTTCAATGATGCGAGTCTCATCTACCGTGTCTATGG 976
Db 901 GATCTGTGTTTCTCATCTTCCGCTTCAATGATGCGAGTCTCATCTACCGTGTCTATGG 960
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Db 961 ACTGATGATCTTGGCGCTCAAGAGTCTCCGATGCTCTCTGGCTTCAAGAAAGAGACAG 1020
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Qy	273	AGTTGCCCCAGCAGCCAGCCCCGGTTCCTGGGTCAA	CTTGCCCACTTAGATGGCAAC	332
Db	61	AGTTGTCTCCAGCAGCAGCCAGCCCCGGTTCCTGGGTCAA	CTTGCCCACTTAGATGGCAAC	120
Qy	333	CTGTCCGACCCATGCGGTCCGAACCCGACCAACCTCGGCGGGAGAGACAGCCCTGTGCCCT	392	
Db	121	CTGTCCGACCCATGCGGTCCGAACCCGACCAACCTCGGCGGGAGAGAGACAGCCCTGTGCCCT	180	
Qy	393	CCGACCGGAGTCCCTCCATGATCAGGCCATCACGATCATGGCCCTCTACTCCATCGTG	452	
Db	181	CCGACCGGAGTCCCTCCATGATCAGGCCATCACGATCATGGCCCTCTACTCCATCGTG	240	
Qy	453	TGCGTGTGGGGCTCTTCGAAACTTCCTGGTCA	TGTGTGATGTGTGATACACCAAG	512
Db	241	TGCGTGTGGGGCTCTTCGAAACTTCCTGGTCA	TGTGTGATGTGTGATACACCAAG	300
Qy	513	ATGAAGACTGCCACCAACATCTACATTTTCAACCTTTGCTCTGGCAGATGCCCTTAGCCACC	572	
Db	301	ATGAAGACTGCCACCAACATCTACATTTTCAACCTTTGCTCTGGCAGATGCCCTTAGCCACC	360	
Qy	573	AGTACCCCTGCGCTTCAGAGTGTGAATTAACCTAATGGGAACATGGCCATTTGGAAACCATC	632	
Db	361	AGTACCCCTGCGCTTCAGAGTGTGAATTAACCTAATGGGAACATGGCCATTTGGAAACCATC	420	
Qy	633	CTTTTGAAGATAGTGATCTCCATAGATTA	CTATAACATGTTACACGACATATTCACCCCTC	692
Db	421	CTTTTGAAGATAGTGATCTCCATAGATTA	CTATAACATGTTACACGACATATTCACCCCTC	480
Qy	693	TGCACCATGAGTGTGATCGATACATTTGCACTGCGCACCCCTGTCAAGGCTTTAGATTTC	752	
Db	481	TGCACCATGAGTGTGATCGATACATTTGCACTGCGCACCCCTGTCAAGGCTTTAGATTTC	540	
Qy	753	CGTACTCCCGAAATGCGAAATTAATCAATGTCTGCAACTGGATCCTCTCTTCAGGCCATT	812	
Db	541	CGTACTCCCGAAATGCGAAATTAATCAATGTCTGCAACTGGATCCTCTCTTCAGGCCATT	600	
Qy	813	GGTCTTCCTGTATGTTGATGGCTACAAACAAATACAGGCAAGTTCCATAGATTGTACA	872	
Db	601	GGTCTTCCTGTATGTTGATGGCTACAAACAAATACAGGCAAGTTCCATAGATTGTACA	660	
Qy	873	CTAACATTTCTCTCATCCAACTGGTACTGGGAAACCTCGTGAAGATCTGTGTTTTCAATC	932	
Db	661	CTAACATTTCTCTCATCCAACTGGTACTGGGAAACCTCGTGAAGATCTGTGTTTTCAATC	720	
Qy	933	TTGCGCTTCATTATGCCAGTGCTCATCAATTAACCGTGTGCTATGGACTGATGATCTTGGCG	992	
Db	721	TTGCGCTTCATTATGCCAGTGCTCATCAATTAACCGTGTGCTATGGACTGATGATCTTGGCG	780	
Qy	993	CTCAAGAGTGTCCGCATGCTCTGGCTCCAAAGAAAGGACAGGAATCTTCGAAGGATC	1052	
Db	781	CTCAAGAGTGTCCGCATGCTCTGGCTCCAAAGAAAGGACAGGAATCTTCGAAGGATC	840	
Qy	1053	ACCAGATGGTGTGGTGGTGGTGTGTTTCATCGTCTGTGGAATCCCATTCACATT	1112	
Db	841	ACCAGATGGTGTGGTGGTGGTGTGTTTCATCGTCTGTGGAATCCCATTCACATT	900	
Qy	1113	TACGTTCATCATTAAAGCCTTGGTTACAAATCCCGAAACCTACGTTCCAGACTGTTTCTTGG	1172	
Db	901	TACGTTCATCATTAAAGCCTTGGTTACAAATCCCGAAACCTACGTTCCAGACTGTTTCTTGG	960	
Qy	1173	CACCTTCGCAATTCCTAGTTACAAACAGCTGCTCAACCCAGTCTTTATGCATTT	1232	
Db	961	CACCTTCGCAATTCCTAGTTACAAACAGCTGCTCAACCCAGTCTTTATGCATTT	1020	
Qy	1233	CTGGATGAAACCTTCAACGATGCTTCAGAGAGTTCGTATCCCAACCTCTTCCAAACATT	1292	
Db	1021	CTGGATGAAACCTTCAACGATGCTTCAGAGAGTTCGTATCCCAACCTCTTCCAAACATT	1080	
Qy	1293	GAGCAACAAACCTCCATCGAATTCGTTCAGAACATAGAGACCAACCCCTCCACGGCCAAT	1352	
Db	1081	GAGCAACAAACCTCCATCGAATTCGTTCAGAACATAGAGACCAACCCCTCCACGGCCAAT	1140	

Qy	1353	ACAGTGGATAGAACTAATCATCATCAGCTAGAAAAATCTGGAAGCAGAAAACTGCTCGTTGCC	1412
Db	1141	ACAGTGGATAGAACTAATCATCATCAGCTAGAAAAATCTGGAAGCAGAAAACTGCTCGTTGCC	1200
Qy	1413	TAA	1415
Db	1201	TAA	1203

Search completed: January 9, 2006, 15:16:40
Job time : 1714.52 secs

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: January 8, 2006, 19:50:21 ; Search time 309.514 Seconds
(without alignments)
5092.624 Million cell updates/sec

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Perfect score: 2162
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Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 4637633 seqs, 364532575 residues

Total number of hits satisfying chosen parameters: 9275266

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published Applications NA New:
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2: /cgn2_6/ptodata/2/pubpna/US06_NEW_PUB.seq.*
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10: /cgn2_6/ptodata/2/pubpna/US60_NEW_PUB.seq.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	2158.4	99.8	2162	7	US-11-127-877-18
2	453.4	21.0	1423	7	US-11-136-527-2066
3	362.6	16.8	2955	7	US-11-136-527-2954
4	233	10.8	8372	7	US-11-136-527-684
5	197.8	9.1	2116	7	US-11-136-527-3819
6	194.8	9.0	1685	6	US-10-750-185-36071
7	194.8	9.0	1685	6	US-10-750-623-36071
8	187.6	8.7	1238	6	US-10-995-561-320
9	187.6	8.7	1238	6	US-10-995-561-320
10	187.6	8.7	86131	6	US-10-995-561-13298
11	177	8.2	3635	7	US-11-136-527-2101
12	172.6	8.0	1384	7	US-11-136-527-2159
13	158.8	7.3	1560	7	US-11-136-527-3742
14	158.8	7.3	1865	6	US-10-533-355-9
15	151.8	7.0	856	6	US-10-750-185-62128
16	151.8	7.0	856	6	US-10-750-623-62128
17	141.4	6.5	1224	6	US-10-750-185-40492
18	141.4	6.5	1224	6	US-10-750-623-40492
19	125.6	5.8	600	7	US-11-136-527-6162
20	112.4	5.2	3985	7	US-11-136-527-3404
21	93.4	4.3	3219	7	US-11-136-527-4059
22	93.4	4.3	3295	7	US-11-136-527-3736
23	92.6	4.3	706	6	US-10-750-185-32790

c	24	92.6	4.3	706	6	US-10-750-623-32790	Sequence 32790, A
	25	88.6	4.1	1450	7	US-11-136-527-3841	Sequence 3841, Ap
	26	85.4	4.0	1339	7	US-11-136-527-4061	Sequence 4061, Ap
	27	85.4	4.0	2580	7	US-11-136-527-3525	Sequence 3525, Ap
	28	83.2	3.8	1915	7	US-11-068-686-3	Sequence 3, Appli
	29	83.2	3.8	1945	7	US-11-127-877-27	Sequence 27, Appli
	30	82.8	3.8	2011	7	US-11-136-527-3805	Sequence 3805, Ap
	31	82.2	3.8	201	6	US-10-995-561-9095	Sequence 9095, Ap
	32	82.2	3.8	201	6	US-10-995-561-9109	Sequence 9109, Ap
	33	82.2	3.8	201	6	US-10-995-561-48688	Sequence 48688, A
	34	82.2	3.8	2156	7	US-11-136-527-3843	Sequence 3843, Ap
	35	81.8	3.8	600	6	US-10-750-185-20212	Sequence 20212, A
	36	81.8	3.8	600	6	US-10-750-623-20212	Sequence 20212, A
	37	81.2	3.8	810	6	US-10-750-185-50101	Sequence 50101, A
	38	81.2	3.8	810	6	US-10-750-623-50101	Sequence 50101, A
	39	78.4	3.6	1116	7	US-11-136-527-2638	Sequence 2638, Ap
	40	76.6	3.5	2338	6	US-10-876-787-1	Sequence 1, Appli
	41	76.6	3.5	2347	7	US-11-127-877-28	Sequence 28, Appli
	42	76.2	3.5	2214	6	US-10-995-561-196	Sequence 196, App
	43	76.2	3.5	2338	6	US-10-995-561-199	Sequence 199, App
	44	76.2	3.5	2363	6	US-10-995-561-197	Sequence 197, App
	45	76.2	3.5	2422	6	US-10-995-561-195	Sequence 195, App

ALIGNMENTS

RESULT 1
US-11-127-877-18
; Sequence 18, Application US/11127877
; Publication No. US20050287565A1
; GENERAL INFORMATION:
; APPLICANT: Hoffmann, Pascal G.
; APPLICANT: Hoffmann, Marcel
; APPLICANT: Spittaels, Koenraad F. P.
; APPLICANT: Laenen, Wendy
; TITLE OF INVENTION: Methods, Compositions and Compound Assays For Inhibiting Amyloid-Beta Protein Production
; FILE REFERENCE: P27,800-B USA
; CURRENT APPLICATION NUMBER: US/11/127,877
; CURRENT FILING DATE: 2005-05-12
; PRIOR APPLICATION NUMBER: 60/570,352
; PRIOR FILING DATE: 2004-05-12
; PRIOR APPLICATION NUMBER: 60/603,948
; PRIOR FILING DATE: 2004-08-24
; NUMBER OF SEQ ID NOS: 590
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 18
; LENGTH: 2162
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (2063)..(2063)
; OTHER INFORMATION: n is a, c, g, or t
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (2091)..(2091)
; OTHER INFORMATION: n is a, c, g, or t
US-11-127-877-18

Query Match 99.8%; Score 2158.4; DB 7; Length 2162;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 2161; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy	1	GGAATTCGGGTATAGGAGAGAGATGTGAGATGTCAGCTCGGTCCCTCCGCTGA	60
Db	1	GGAATTCGGGTATAGGAGAGAGATGTGAGATGTCAGCTCGGTCCCTCCGCTGA	60
Qy	61	CGCTCCTCTGCTCTCAGCCAGGACTGGTTTCTGTGAAGAAACAGCAGGAGTGTGGCAGC	120
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181 CGCACAGCGGTGCCCGCGCGCGCTCAGTACCAATGACAGCAGCGTGCCTCCCGCACGAACG 240
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361 CCAACCTGGCGGGGAGAGACAGCCTGTGCCCTCCGACCGGCACTGCCCTCCATGATCACGG 420
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1441 CACCAAGCTTAGAAGCCACCATGTATGTGGAAGCAGGTTGCTTCAAGAAATGTGTAGGAG 1500
1441 CACCAAGCTTAGAAGCCACCATGTATGTGGAAGCAGGTTGCTTCAAGAAATGTGTAGGAG 1500
1501 CTCTAATCTCTAGGAAAGTGCCTACTTTTAGGTGATCCAACTCTTCTCTCTGGCCA 1560
1501 CTCTAATCTCTAGGAAAGTGCCTACTTTTAGGTGATCCAACTCTTCTCTCTGGCCA 1560
1561 CTCTGCTCTGCACATTTAGAGGACAGCCAAAGTAGTGAAGCATTTTGGAAGGAAAGGAA 1620
1561 CTCTGCTCTGCACATTTAGAGGACAGCCAAAGTAGTGAAGCATTTTGGAAGGAAAGGAA 1620
1621 TATACACACCCAGAGTCCAGTTTGTGCAAGACACCCAGTGGAAACCCCAACCCCTGTCG 1680
1621 TATACACACCCAGAGTCCAGTTTGTGCAAGACACCCAGTGGAAACCCCAACCCCTGTCG 1680
1681 GTATGTGAATTCAGTGCATATAAGGTTGACCCCTCTCTGCTGTAGATTTTATTTTCAA 1740
1681 GTATGTGAATTCAGTGCATATAAGGTTGACCCCTCTCTGCTGTAGATTTTATTTCAA 1740
1741 GCAAAATATTTATGACCTCAACAAAGAAAGAACCATCTTTTGTAAAGTTTCCCGTAGTAACA 1800
1741 GCAAAATATTTATGACCTCAACAAAGAAAGAACCATCTTTTGTAAAGTTTCCCGTAGTAACA 1800
1801 CATAAAGTAAATGCTTACCTCTGATCAAGCAGCTTGAATGGAGGTCGAGTCTTTTAG 1860
1801 CATAAAGTAAATGCTTACCTCTGATCAAGCAGCTTGAATGGAGGTCGAGTCTTTTAG 1860
1861 TGTCTTTCGCAAGGAAATGAATCCATTTATTTTAGACTTTTAACTTCAACTTAAAT 1920
1861 TGTCTTTCGCAAGGAAATGAATCCATTTATTTTAGACTTTTAACTTCAACTTAAAT 1920
1921 TAGCATCTGGCTTAAGGCAATCATTTTACCTCCATTTCTTGGTTTGTATGTTTAAAAAA 1980
1921 TAGCATCTGGCTTAAGGCAATCATTTTACCTCCATTTCTTGGTTTGTATGTTTAAAAAA 1980
1981 AATAACATCTCTTTCATCTAGCTCCATTAATTCGAAGGAGAGATTTAGCATGAAGGTA 2040
1981 AATAACATCTCTTTCATCTAGCTCCATTAATTCGAAGGAGAGATTTAGCATGAAGGTA 2040
2041 TCTGAAACACAGTGCATGTCANCTGTAGAAAGTTGATTTCTCATGCACTNCAATFACIT 2100
2041 TCTGAAACACAGTGCATGTCANCTGTAGAAAGTTGATTTCTCATGCACTNCAATFACIT 2100
2101 CCAAGAGTGCATCATGGGGGATTTTTCATTTAGGCTTTTTCAGTGGTGTTCCTGGAAT 2160
2101 CCAAGAGTGCATCATGGGGGATTTTTCATTTAGGCTTTTTCAGTGGTGTTCCTGGAAT 2160
2161 TC 2162
2161 TC 2162

RESULT 2
US-11-136-527-2066
; Sequence 2066, Application US/11136527
; Publication No. US20050287570A1
; GENERAL INFORMATION:

```
; APPLICANT: Wyeth
; APPLICANT: Mounts, William M
; TITLE OF INVENTION: Probe Arrays For Expression Profiling of Rat Genes
; FILE REFERENCE: 031896-041000 (AM101086)
; CURRENT APPLICATION NUMBER: US/11/136,527
; CURRENT FILING DATE: 2005-05-25
; PRIOR APPLICATION NUMBER: US 60/574,294
; PRIOR FILING DATE: 2005-05-26
; NUMBER OF SEQ ID NOS: 362830
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 2066
; LENGTH: 1423
; TYPE: DNA
; ORGANISM: Rattus norvegicus
; US-11-136-527-2066

Query Match      21.0%; Score 453.4; DB 7; Length 1423;
Best Local Similarity 68.9%; Pred. No. 2.9e-127;
Matches 637; Conservative 0; Mismatches 285; Indels 3; Gaps 1;

QY 406 CCTCCATGATCAGCGCCATCAGATCATGCGCCCTCTACTCATCGTGTGCGTGGGGC 465
DB 236 GGTCCCTGGCTCTGGCCATGCCATCAGCGGCTCTACTCGGCTGTGTGCGCGTGGGGC 295
QY 466 TCTTCGGAAATCTCTGGTCTATGTATGTATGATTCAGATACACCAAGATGAAGCTGCCA 525
DB 296 TGCTGGGCACGTCGTCTCATGTTTGGAAATCGTCCGGTACACTAAAGCTGAAGACGGCCA 355
QY 526 CCAACATCTACATTTTCAACCTTCTGTCGAGATGCTTAGCCACAGTACCCCTGCCCT 585
DB 356 CCAACATCTACATTTTCAACCTTCTGTCGAGATGCTTAGCCACAGTACCCCTGCCCT 415
QY 586 TCCAGAGTGTGAATTAACCTAATGGAAACATGCCATTTGGAAACATCTTTGCAAGATAG 645
DB 416 TCCAGAGCGCAAGTACCTGATGAAACGTGCCGTTTCGGAGAGTGTGTGCAAGGTG 475
QY 646 TGATCTCCATAGATTACTATAACATGTTCCACAGATATTCACCTCTGACCATGATG 705
DB 476 TGCTCTCCATTTGACTACTACACATGTTTCCACAGCATCTTCACGCTCACCATGATGAGCG 535
QY 706 TTGATCGATACATTTGACGTGCGACCTGTCAAGGCTTAGATTTCCGTACTCCCGGAA 765
DB 536 TGGACCGCTACATTCGGCTGTGCCACCTGTCAAGGCTTTGAGCTTCGGACACGGGCA 595
QY 766 ATGCCAAATTAATCAATGTCTGCAACTGGATCTCTCTTCAGCCATGGTCTTCTGTGAA 825
DB 596 AGGCCAAGCTGATCAACATATGATCTGGCTTTCAGGTGTTGGGGTCCCCATCA 655
QY 826 TGTTCAATGGCTACAAACAAATACAGGCAAGGTTCCATAGATGTACACTACATTCCTTC 885
DB 656 TGGTCATGGCAGTGAACCAACCCCGGATGGAGCAGTGGTATGCAAGCTCCAGTTCCCCCA 715
QY 886 ATCCAACTGGTACTGGGAAACCTCGTGAAGATCTGTGTTTTCATCTTCGCTTCATTA 945
DB 716 GCGCCAGCTGGTACTGGGACACTGTGACCAAGATCTGCGTGTCTCTTCGCTTCGTGG 775
QY 946 TGCCAGTGTCTCATATTACCGTGTCTATGGAATGATCTTGGCCCTCAAGAGTGTC 1005
DB 776 TGCCCATTTCTCATCATACCGTGTCTATGGCTCATGCTGCTGCGCTGCGCAGCGTGC 835
QY 1006 GATGCTCTGTGGCTCCAAAGAAAGGACAGGAATCTTCGAAGGATACACAGGATGGTGC 1065
DB 836 GCGTGTCTGCGGCTCCAAAGGAGAGGACCGAGCCTGCGGCGCATACGCGCATGGTGC 895
QY 1066 TGGTGGTGGTGGCTGTGTTTCATCGTCTGCTGAGCTCCCATTCACATTTTACGTCATTA 1125
DB 896 TGGTGGTGGTGGAGCTTCTGTTGGTGTGCTGGGCGCCCATCCACATCTTCTGTCATCTGT 955
QY 1126 AAGCTTGGTTTACAATC---CCAGAAACTACGTTCCAGACTGTTTCTTGGCACTTCTGCA 1182
DB 956 GGAAGCTGGTGACATCAATCGGCGGACCCCACTTGTGGTGGCGGCTGCACTTGTGCA 1015
QY 1183 TTGCTCTAGTTTACAAACAGCTGCTCAACCCAGTCTGCTTTATGCAATTTCTGGATGAA 1242
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DB 1016 TTGCGCTGGGCTACGCCAACAGCAGCCTCAACCGGTTCTCTACGCTTCTCTGGACGAGA 1075
QY 1243 ACTTCAACAGATGCTTCAGAGATTTCTGTATCCCAACTCTTCCAAACATTTGACCAACAAA 1302
DB 1076 ACTTCAAGCGCTGCTTCCCGCAGCTCTGTGCGGCGCCCTGCGGCGGCGCAAGACCCGGCA 1135
QY 1303 ACTCCACTCGAATTCGTGAGAACAC 1327
DB 1136 GCTTCGCGCTCCCCCGCAGGCCAC 1160

RESULT 3
US-11-136-527-2954
; Sequence 2954, Application US/11136527
; Publication No. US20050287570A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William M
; TITLE OF INVENTION: Probe Arrays For Expression Profiling of Rat Genes
; FILE REFERENCE: 031896-041000 (AM101086)
; CURRENT APPLICATION NUMBER: US/11/136,527
; CURRENT FILING DATE: 2005-05-25
; PRIOR APPLICATION NUMBER: US 60/574,294
; PRIOR FILING DATE: 2005-05-26
; NUMBER OF SEQ ID NOS: 362830
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 2954
; LENGTH: 2955
; TYPE: DNA
; ORGANISM: Rattus norvegicus
; US-11-136-527-2954
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Query Match      16.8%; Score 362.6; DB 7; Length 2955;
Best Local Similarity 62.6%; Pred. No. 2.2e-99;
Matches 560; Conservative 3; Mismatches 332; Indels 0; Gaps 0;

QY 424 TCACGATCATGGCCCTCTACTCCATCGTGTGCGTGGTGGGGCTCTTCGGAACACTTCTCGG 483
DB 329 TCACCATCTGTTGGGGCTCTACTTGGCTGTGTGTCATCGGGGGCTCTCTGGGAACCTGCTCG 388
QY 484 TCATGTATGTATGTGTGATGATACACCAAGATGAAGATGCCACCAACATCTACATTTTCA 543
DB 389 TCATGTATGTATGTATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 448
QY 544 ACCTTGTCTGCGAGATGCTTAGCCACAGTACCTTCCGCTTCCAGAGTGTGAATACC 603
DB 449 ATCTGGCAGCTGGCTGTATACCTGCTTGTCTAACACTGCGCTTCCAGGAGACAGACATCC 508
QY 604 TAATGGGAACATGSCCAATTTGGAAACCATCTTTGCAAGATAGTATCTCCATAGATTAAT 663
DB 509 TACTGGGCTCTTGGCCATTTGGGAATGCACTCTGCAAGACTGTCTATGCTATCGACTACT 568
QY 664 ATAACATGTTTACCAGACATTTTACTCTGACCGCATGAGCGTAGACCGCTATGTGGCTA 723
DB 569 ACAACATGTTTACCAGACATTTTACTCTGACCGCATGAGCGTAGACCGCTATGTGGCTA 628
QY 724 TCTGCCACCTGTCAAGGCTTAGATTTCCGTAATCTCCCGAATGCCAAATTAATCAATG 783
DB 629 TCTGCCACCTGTCAAGGCTTAGATTTCCGTAATCTCCCGAATGCCAAATTAATCAATG 688
QY 784 TCTGCCACCTGTCAAGGCTTAGATTTCCGTAATCTCCCGAATGCCAAATTAATCAATG 843
DB 689 TGGCCATATGGGCGCTGGCTGAGTGCCTGAGTGCCTGAGTGCCTGAGTGCCTGAGTGCCTGAG 748
QY 844 AATACAGGCAAGGTTTCCATAGATTTGATACCTAAACATTTCTCTCAATCCAACTGGTACTGGG 903
DB 749 AAGTGAAGATGAAGAGATCGAGTGCCTGAGTGCCTGAGTGCCTGAGTGCCTGAGTGCCTGAG 808
QY 904 AAAACCTCGTGAAGATCTGTTTTCATCTTCCGCTTCAATATGCCAGTGTCTCATCTTA 963
DB 809 GCCCTGTATTGGCCATCTGCATCTTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 868
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QY 964 CCGTGTGCTATGAGCATGATCTTGGCGCTCAAGAGTGTCCGATGCTCTCTGGCTCCA 1023
| | | | | | | | | | | | | | | | | | | | | | : | | | | |
Db 869 CTGCTGTCTACAGCCCTCATGATTCGACGATCTCGTGGTGTCCGCTCTGCTTTCAGGCTCCC 928
| | | | | | | | | | | | | | | | | | | | | | | | | | |
QY 1024 AAGAAAAGGACAGGAATCTTCGAAGGATCACCAGGATGGTGTGGTGGTGGTGTGT 1083
| | | | | | | | | | | | | | | | | | | | | | | | | | |
Db 929 GGGAGAAGGACCGAAACCTCGCGCGTATCACTCGACTGGTGTGGTGTGGTGTGTGT 988
| | | | | | | | | | | | | | | | | | | | | | | | | | |
QY 1084 TCATCGTGTGCTGGACTCCCAATTCACATTTACATGTCATCAATTAAGCCTTGGTTACAATCC 1143
| | | | | | | | | | | | | | | | | | | | | | | | | | |
Db 989 TTGTGGGCTGCTGGACGCTGTGACAGTGTCTTCTCGTGTTCGAAGACTGGGTGTTCAGC 1048
| | | | | | | | | | | | | | | | | | | | | | | | | | |
QY 1144 CAGAACTAGTTCACAGACTGTTTCTTGGACATCTTGGACATCTGCAATGCTACAGTAACAAACA 1203
| | | | | | | | | | | | | | | | | | | | | | | | | | |
Db 1049 CAGGTAGTGAGACTGACAGTTGCCATCTCGCGCTTCTGCACAGCCCTGGGCTATGTCAACA 1108
| | | | | | | | | | | | | | | | | | | | | | | | | | |
QY 1204 GCTGCTCAACCCAGTCTTTTATGCAATTTCTGGATGAAACATTTCAAAACGATGCTTCAGAG 1263
| | | | | | | | | | | | | | | | | | | | | | | | | | |
Db 1109 GTTGTCTCAATCCATCTCTATGCTTCTGATGAGAACTTCAAGGCTGCTTTAGAA 1168
| | | | | | | | | | | | | | | | | | | | | | | | | | |
QY 1264 AGTTCTGTATCCAACTCTTCCAAATTTGAGCAACAAACCTCACTCGAAATTCG 1318
| | | | | | | | | | | | | | | | | | | | | | | | | | |
Db 1169 AGTTCTGTGCTCTCATCCCTGCACCGGAGATGCAAGTTTCTGATCGTGTGCG 1223
| | | | | | | | | | | | | | | | | | | | | | | | | | |

RESULT 4

US-11-136-527-684
; Sequence 684, Application US/11136527
; Publication No. US20050287570A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William M
; TITLE OF INVENTION: Probe Arrays For Expression Profiling of Rat Genes
; FILE REFERENCE: 031896-041000 (AM101086)
; CURRENT APPLICATION NUMBER: US/11/136,527
; CURRENT FILING DATE: 2005-05-25
; PRIOR APPLICATION NUMBER: US 60/574,294
; PRIOR FILING DATE: 2005-05-26
; NUMBER OF SEQ ID NOS: 362830
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 684
; LENGTH: 8372
; TYPE: DNA
; ORGANISM: Rattus norvegicus
; US-11-136-527-684

Query Match 10.8%; Score 233; DB 7; Length 8372;
Best Local Similarity 56.4%; Pred. No. 1.4e-59;
Matches 513; Conservative 0; Mismatches 315; Indels 81; Gaps 1;
QY 491 TGTGATTGTGATACACCAAGATGAAGACTGCCACCAACATCTACATTTTCAACCTTGC 550
| | | | | | | | | | | | | | | | | | | | | | | | | | |
Db 5100 TGTCCCTCTACAGGCACACCAAGATGAAGACAGCTACCAACATTTACATATTTAATCTGGC 5159
| | | | | | | | | | | | | | | | | | | | | | | | | | |
QY 551 TCTGGCAGATGCTTAGCCACAGTACCTTCCGCTTCCAGAGTGTGAATTAATTAATGGG 610
| | | | | | | | | | | | | | | | | | | | | | | | | | |
Db 5160 ACTGGCTGATACCTGGTCTTGTGTAACACTGCTCCCTTCCAGGACACAGATCCTACTGGG 5219
| | | | | | | | | | | | | | | | | | | | | | | | | | |
QY 611 AACATGCCATTTGGGAACCATCTTTGCAAGATAGTATCTCCATAGATTACTATAACAT 670
| | | | | | | | | | | | | | | | | | | | | | | | | | |
Db 5220 CTTCTGGCCATTTGGGAATGCATCTGCAAGACTGTGCTATGCTATGCTACTACAACT 5279
| | | | | | | | | | | | | | | | | | | | | | | | | | |
QY 671 GTTCACAGCATATTCACCTCTGACCATGATGATGTTGATGCGATACATTTGCACTGTGCCA 730
| | | | | | | | | | | | | | | | | | | | | | | | | | |
Db 5280 GTTTACAGCACATTTTACTCTGACCGCCATGATGCGTAGACCGTATGTGCTATCTGCCA 5339
| | | | | | | | | | | | | | | | | | | | | | | | | | |
QY 731 CCTGTCAAGCCCTTAGATTTTCGTACTCCCGAATGCCAAATATCAATATGTCGCA 790
| | | | | | | | | | | | | | | | | | | | | | | | | | |
Db 5340 CCTATCCGTGCGCTTTGATGTTCCGACATCCAGAAAGCCAGGCTGTTAATGTGCCAT 5399
| | | | | | | | | | | | | | | | | | | | | | | | | | |
QY 791 CTGGATCCTCTCTCAGCCATTTGCTTTCCTGTAATGTTTCATGGCTACAAACAAA---- 845
| | | | | | | | | | | | | | | | | | | | | | | | | | |
Db 5400 ATGGGCCCTGGCTTCAGTGGTGTGTTCTGTGTCATCATGCGTTTCAGCACAAAGTGA 5459
| | | | | | | | | | | | | | | | | | | | | | | | | | |

QY 846 ----- 845
| | | | | | | | | | | | | | | | | | | | | | | | | | |
Db 5460 AGATGAAGGTCAGTGGTGGTCTCTCCTCCCTGACTCATTTAGTTTCCCATGGTCTTGTGCTG 5519
| | | | | | | | | | | | | | | | | | | | | | | | | | |
QY 846 -----TACAGGCAAGGTTTCCATAGATTGTACATAACATTTCTCATCC 889
| | | | | | | | | | | | | | | | | | | | | | | | | | |
Db 5520 GTCCCTCTGACCCCATTTCTCTCTGCAGAGATCGAGTGCCTGGTGGAGATCCCTGCCCC 5579
| | | | | | | | | | | | | | | | | | | | | | | | | | |
QY 890 AACCTGGTACTGGGAAAACTCGTGAAGATCTGTGTTTTCATCTTTCGCCCTTCAATATGCC 949
| | | | | | | | | | | | | | | | | | | | | | | | | | |
Db 5580 TCAGACTATTGGGCCCTGTATTCCCATCTGCACTCTCTCTTTTCTTCATCATCC 5639
| | | | | | | | | | | | | | | | | | | | | | | | | | |
QY 950 AGTGTCTCATCTTACCGTGTCTATGGACTGATGATCTTGGCCCTCAAGAGTGTCCGCAT 1009
| | | | | | | | | | | | | | | | | | | | | | | | | | |
Db 5640 TGTGCTGATCATCTCTGTCTGCTCAGCCCTCATGATTCGACACTTCGTGGTGTCCGTCT 5699
| | | | | | | | | | | | | | | | | | | | | | | | | | |
QY 1010 GCTCTCTGGCTCCAAAGAAAGGACAGGAATCTTCGAAGGATCACACAGGATGGTGTGT 1069
| | | | | | | | | | | | | | | | | | | | | | | | | | |
Db 5700 GCTTTCAGGCTCCCGGAGAGGACCGAAACCTGCGCGTATCACTCGACTGTGTGTGT 5759
| | | | | | | | | | | | | | | | | | | | | | | | | | |
QY 1070 GGTGTGGCTGTGTTCACTGCTGTGACTCCCAATTCACATTTACGTCATCATTTAAAGC 1129
| | | | | | | | | | | | | | | | | | | | | | | | | | |
Db 5760 AGTGTGGCTGTGTTTGTGGCTGTGGACGCTGTGCAGGTGTGTTGTCCTGGTTCAAG 5819
| | | | | | | | | | | | | | | | | | | | | | | | | | |
QY 1130 CTTGGTTACAATCCCGAATACTACGTTCCAGACTGTTTCTTGGCACTTCTGCAATGCTCT 1189
| | | | | | | | | | | | | | | | | | | | | | | | | | |
Db 5820 ACTGGGTGTTCAGCCAGGTAGTGAGACTGCGCAATCGCGCTTCTGCACAGCCCT 5879
| | | | | | | | | | | | | | | | | | | | | | | | | | |
QY 1190 AGGTTACACAAACAGCTGCTCAACCCAGTCTCTTTATGCAATTTCTGGATGAAACCTCAA 1249
| | | | | | | | | | | | | | | | | | | | | | | | | | |
Db 5880 GGGCTATGTCAACAGTTGTCTCAATCCCATTTCTATGTTTCTTGGATGAGAACTCAA 5939
| | | | | | | | | | | | | | | | | | | | | | | | | | |
QY 1250 ACGATGCTTCAGAGATCTGTATCCCAACCTTTCACAACTTGAGCAACAAACCTCCAC 1309
| | | | | | | | | | | | | | | | | | | | | | | | | | |
Db 5940 GGCCTGCTTTAGAAAGTTCTGCTGTCTTCATCCCTGCACCGGAGATCGAGGTTTCTGA 5999
| | | | | | | | | | | | | | | | | | | | | | | | | | |
QY 1310 TCGAATTGG 1318
| | | | | | | | | | | | | | | | | | | | | | | | | | |
Db 6000 TCGTGTGCG 6008
| | | | | | | | | | | | | | | | | | | | | | | | | | |

RESULT 5

US-11-136-527-3819
; Sequence 3819, Application US/11136527
; Publication No. US20050287570A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William M
; TITLE OF INVENTION: Probe Arrays For Expression Profiling of Rat Genes
; FILE REFERENCE: 031896-041000 (AM101086)
; CURRENT APPLICATION NUMBER: US/11/136,527
; CURRENT FILING DATE: 2005-05-25
; PRIOR APPLICATION NUMBER: US 60/574,294
; PRIOR FILING DATE: 2005-05-26
; NUMBER OF SEQ ID NOS: 362830
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 3819
; LENGTH: 2116
; TYPE: DNA
; ORGANISM: Rattus norvegicus
; US-11-136-527-3819

Query Match 9.1%; Score 197.8; DB 7; Length 2116;
Best Local Similarity 53.2%; Pred. No. 2.7e-49;
Matches 443; Conservative 0; Mismatches 387; Indels 3; Gaps 1;
QY 430 TCATGGCCCTCTACTCCATCGTGTGGTGGTGGGCTCTTCGAAACTTCTTGGTCTATGT 489
| | | | | | | | | | | | | | | | | | | | | | | | | | |
Db 504 TCACGTTTACTTACTTCGTGGTGGTGGGCTGTGGCGCAACACGCTGCTCATCT 563
| | | | | | | | | | | | | | | | | | | | | | | | | | |
QY 490 ATGTGATTGTCAGATACCAAGACTGCCAACCAATCTACATTTTCAACCTTG 549
| | | | | | | | | | | | | | | | | | | | | | | | | | |

Db 564 ACGTCATCTCCGCTAGCCCAAGATGAAACCAACCATCAGCAACATTTACATCTCTCAACCTGG 623
Qy 550 CTCGGCAGATGCTTAGCCACCACTAGCTACCTGCGCTTCCAGAGTGTGAATTAACCTATGG 609
Db 624 CCATCGCAGATGAATCTTTCATGCTGGGCTGCGCTTCTTGGCCATGAGGTGGCGCTGG 683
Qy 610 GAACATGGCCATTTTGGGAACCACTCTTTGCAAGATAGTAGTCTCCATAGATTTACTATAA 669
Db 684 TCCACTGGCTTTTGGCAAGCCATCTGCGGGTGGTCACTGTGGACGGTATCAACC 743
Qy 670 TGTTCACAGATATTCACCTCTGACCATGATGTTGATGATGATGATGATGATGATGATGAT 729
Db 744 AGTTACACAGTATCTTCTGCTTACGCTGAGCAGTACGACCTGATGATGATGATGATGAT 803
Qy 730 ACCCTGTCAAGGCTTAGATTTCCGTACTCCCGGAATGCGGAATGCGGAATTTATCAATCTG 789
Db 804 ACCCCATTAAGTCAGCCAAATGAGGAGGACCCCGGACAGCCAAATGATCAACCTGGCTG 863
Qy 790 ACTGGATCTCTCTTACGCCATTTGCTCTTCTGTAATGTTTCATGGCT---ACAACAAAT 846
Db 864 TGTGGGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 923
Qy 847 AAGGCAAGGTTCCATAGATTTACATCAATCTCTCAATCCCAACCTGATGATGATGATGAT 906
Db 924 ACGAGTGGGTAGGAGCAGCTGCACCACTCAACTGGCGGGGGAATCCGGGGCATGGTACA 983
Qy 907 ACCTGTGAAGATCTGTTTTCATCTTGGCTTTCATTTATGCCAGTGTCTCATCATATTACCG 966
Db 984 CGGGTTTCTATATCTATGCTTCTATCTCTGCTGGGTTTCTGGTATACCCCTAACCATCAT 1043
Qy 967 TGTGCTATGGATGATGATCTTGGCCCTCAAGAGTGTCCGATGCTCTCTGGCTCCAAAG 1026
Db 1044 TCTGCTACTGTTCTATCATCATCAAGGTGAAGTCTCTGGGATCGAGTGGGGTGGTCCA 1103
Qy 1027 AAAAGGACAGGAATCTTCGAAGGATCACAGAGTGGTGGTGGTGGTGGTGGTGGTGGT 1086
Db 1104 AGAGGAAAGTTCAGAGAAAGGTGACCCGAAATGGTATCCATCGTGGTGGCTGTCTTCA 1163
Qy 1087 TCGTCTGTGACTCCCATTCACATTTAGCTCATCATTAAGCCCTTGGTTACATCCAG 1146
Db 1164 TCTTCTGTGGCTCCCTTCTATATCTTCAATGCTCTGCTGGTGTGTGGCCATCAGCC 1223
Qy 1147 AAACCTACGTTCCAGACTGTTTCTTGGCACTTCTGCAATGCTTAGGTATACAAACAGCT 1206
Db 1224 CCACCCCTGGCTGAAGGATGTTTGAATTTGGTGGTATCTTACCTACCTACGCCACAGCT 1283
Qy 1207 GCCTCAACCCAGTCTCTTTATGCAATTTCTGGATGAAACTTCAACAGGATGCTTC 1259
Db 1284 GCGCAACCCCATCTGTACGCTTCTTGTCCGACAACTTCAAGAAGAGCTTC 1336

RESULT 6
US-10-750-185-36071/c
; Sequence 36071, Application US/10750185
; Publication No. US20050260603A1
; GENERAL INFORMATION:
; APPLICANT: MMI GENOMICS, INC.
; APPLICANT: DENISE, Sue K.
; APPLICANT: KERR, Richard
; APPLICANT: ROSENFELD, David
; APPLICANT: HOLM, Tom
; APPLICANT: BATES, Stephen
; APPLICANT: FANTIN, Dennis
; TITLE OF INVENTION: COMPOSITIONS FOR INFERRING BOVINE TRAITS
; FILE REFERENCE: MM1100-2
; CURRENT APPLICATION NUMBER: US/10/750,185
; CURRENT FILING DATE: 2003-12-31
; PRIOR APPLICATION NUMBER: US 60/437,482
; PRIOR FILING DATE: 2002-12-31
; NUMBER OF SEQ ID NOS: 64922
; SOFTWARE: PatentIN version 3.1
; SEQ ID NO 36071
; LENGTH: 1685

; TYPE: DNA
; ORGANISM: Bovine 198688067545
US-10-750-185-36071
Query Match 9.0%; Score 194.8; DB 6; Length 1685;
Best Local Similarity 51.3%; Pred. No. 1.9e-48;
Matches 507; Conservative 0; Mismatches 462; Indels 15; Gaps 2;
Qy 279 CCCCCAGCAGCCAGCCCGGTTCTCTGGGTCAACTTGTCCACTTTAGATGCAACACTGTCC 338
Db 1482 CCCTCTCTCTAGCCCCAGCCAGGAGCTGCGGGAAGGCGGCGAGCAGGGGCCCC 1423
Qy 339 GACCCATGCGGTCCGAACCCGACCAACCTGGGGGGGAGACAGACCTGTGCCCTCCGACC 398
Db 1422 GGGCGCGGCTGACAGACGGGATGGAAGAACCGGGGGGAAACCGCTCCAGAACGGGACC 1363
Qy 399 GGCAGTCCCTCCATGATCAGGGCATCACGATCATGSCCTCTACTCCATCGTGTGGTG 458
Db 1362 TTGAGCGAGGGCAGGGCAGCGCTATCCTCATCTCTTTCACTACTCCGTGGTGTGCTG 1303
Qy 459 GTGGGGCTCTTCGGAACACTTCTCTGGTCATGTATGTGTGTGTGTGTGTGTGTGTGTGT 518
Db 1302 GTGGGCTCTGTGGAACTCCATGATCTACGTGATCTCTGGCTAGCCAGATGAAG 1243
Qy 519 ACTGCCACCAACATCTACATTTTCAACCTTGTCTTGGCAGATGCCCTTAGCCACGATACC 578
Db 1242 ACGGCCACCAACATCTACATCTCTCAACCTGGCCATCGCCGATGAGCTGTCTATGCTCAG 1183
Qy 579 CTGGCTTCCAGAGTGTGAATTACCTAATGGGAACATGSCCATTTTGAACCATCTTTTGC 638
Db 1182 GTGGCTTCTCTGTGACCTCCCATGCTTCCGACCTGGCCCTTTCGGGGGCTACTCTGC 1123
Qy 639 AAGATAGTATCTCCATAGATTTACTATAACATGTTTACACAGCATATTTCACCCCTCTGCACC 698
Db 1122 CGCTCTGTCTAGCGTGGAGCGAGTCAACATGTTTACACGATCTACTGTCTGACTGTG 1063
Qy 699 ATGAGTGTGATCGATACATTTGAGTCTGCCCTGTCAAGGCTTAGATTTCCGTTACT 758
Db 1062 CTTAGCTGACCGCTACGTGGCGTGGTGCACCCCATCAAGGCCGACGCTACCGCGG 1003
Qy 759 CCGGAATGCCAAATTTCAATGTCTGCACTGGATCTCTCTTTCAGCCATTTGCTT 818
Db 1002 CCCACCGTGGCAAGGTGGTGAATCTGGGCGTGTGGGTGTGTGTGTGTGTGTGTGTGT 943
Qy 819 CC---TCTAATGTTTATGGCTTACAAATAACAGCAAGGTTCCATAGATTTGACACTA 875
Db 942 CCNATCGTGTCTTCTCGGCAAGCGGCGCAACAGCGACGCGTGGCTGCAACATG 883
Qy 876 ACATTTCTCATCCAACTGTGTACTGGGAAACCTCTGTGAAGATCTGTGTGTGTGTGTGT 935
Db 882 CTCATGCCGAGCCCGCCAGCGCTGGCTGGTGGGCTTCTGTGTGTGTGTGTGTGTGTGTGT 823
Qy 936 GCCTTCAATTATGCGAGTGTCTATCAATTTACCGTGTGTGTGTGTGTGTGTGTGTGTGTGT 995
Db 822 GGCTTCTGTGTGCGCGCTCGGGCCATCTGTCTTGTGTGTGTGTGTGTGTGTGTGTGTGT 763
Qy 996 AAGAGTGTCCGATGCTCTCTGGCTCCAAAGAAAGGACAGCAAGTCTTTCGAAGGATCACC 1055
Db 762 CGCATGTGGCCCTCAAGGCGGCTGGCAGCGGCAAGCGCTCGGAGCGCAAGATCACC 703
Qy 1056 AGGATGT 1115
Db 702 CTGATGT 643
Qy 1116 GTCATCATTAAGGCTTGGT 1175
Db 642 CAGCTAGTCAACGTGTTTCGGGAGCAGGACGAGCCACCGTGA-----GCCAG 595
Qy 1176 TTCTGCAATTTGCTTAGGTTTACACAAACAGCTGCTCAACCCAGTCTTTTATGCAATTTCTG 1235
Db 594 CTGTGGTCTATCTCGGTTACGCCAACAGCTGCGCCAAACCCCTCTCTACGGCTTCTCT 535
Qy 1236 GATGAAACCTTCAAAACGATGCTTC 1259


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QY 724 TCTGCCACCTGTCAAGSCCTTAGATTTCCGTACTCTCCCGAAATGCCAAATATATCAATG 783
Db 514 TGTGTACCTCTCTCGCGCGGCGACCTACCGCGGCGCCAGGTGGCCAGCTCATCAACC 573
QY 784 TCTGCAACTGGATCCTCTCTTTCAGCCATTTGGTCTTCTCTGTAATGTTTCATGGCTACAAACA 843
Db 574 TGGCGGTGGCTGGCATCCCTGTTGGTCACTCTCTCCCATCGCCATCTTCGCAGACACCA 633
QY 844 AATACAGGCAAGGTTCCATAGATGTACACTAACAATCTCTCATCCAACTGGTACTGGG 903
Db 634 GACCGGCTCGCGGCGGCGAGCCCTGGCTGCAACCTGCAAGTGCCACACCCGGCCTGGT 693
QY 904 ABAACCTCGTGAAGATCTGTTTTCATCTTCGCTTTCATTTATGCCAGTGTCTCATCATTA 963
Db 694 CGGCAGTTCGTTGGTCTACACTTTCCTGCTGGGCTTCCTGCTGCCGCTGCTGGCCATTG 753
QY 964 CCGTGTCTATGGACTGATGATCTTGGCCCTCAAGAGTGTCCGATGCTCTCTGGCTCCA 1023
Db 754 GYCTGTGCTACTCTCATCGTGGCAAGATGCGCGCGTGGCCCTGYGCMGGCTGGC 813
QY 1024 AAGAAAGGACAGGAATCTTGAAGGATCACCAGATGGTGGTGGTGGTGGTGGTGGTGGT 1083
Db 814 AGCAGCGCAGGCGCTCGAGAGAAATACACAGGCTGGTGGTGGTGGTGGTGGTGGTGGT 873
QY 1084 TCATCGTCTGCTGACTCCCATTCACATTTACGTCATCATTAAGCCCTTGGTTACAATCC 1143
Db 874 TTGTGCTCTGCTGATGCTTCTACGTTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGT 933
QY 1144 CAGAACTACCTTCAGACTGTTTCTTGGCACTTCTGCACTTCTGCACTTCTAGGTTACAAACA 1203
Db 934 TTGATGCCACCGTCAAC-----CACGTGTCCTTATCCTTAGCTATGCCAAYA 981
QY 1204 GCTGCCTCAACCCAGTCTTTATGCAATTTCTGGATGAAGAACTTCAAGCATGCTTC 1259
Db 982 GCTGGCCAAACCCVATTCTCTATGGYTTCTCTATGGYTTCTCTCCGACAACTTCGCGCATYCTTC 1037

RESULT 9
US-10-995-561-320
; Sequence 320, Application US/10995561
; Publication No. US20050272054A1
; GENERAL INFORMATION:
; APPLICANT: CARGILL, Michele et al.
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; TITLE OF INVENTION: CARDIOVASCULAR DISORDERS AND DRUG RESPONSE, METHODS OF
; TITLE OF INVENTION: DETECTION AND USES THEREOF
; FILE REFERENCE: CL001559
; CURRENT APPLICATION NUMBER: US/10/995,561
; CURRENT FILING DATE: 2004-11-24
; NUMBER OF SEQ ID NOS: 85702
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 320
; LENGTH: 1498
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-995-561-320

Query Match 8.7%; Score 187.6; DB 6; Length 1498;
Best Local Similarity 51.9%; Pred. No. 2.7e-46;
Matches 434; Conservative 8; Mismatches 382; Indels 12; Gaps 1;

QY 424 TCAGATCATGCCCTCTACTTCATCTCGTGGTGGGCTCTTCGGAAACTTCTCTGG 483
Db 214 TCGTATCCAGTGCATCTACGCGCTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGT 273
QY 484 TCATGTATGATTTCTCAGATACACCAAGATGAAGACTGCCACCAACATCTACATTTTCA 543
Db 274 TCATCTTGTGATCTCTCGCTACGCCAAGATGAAGACCGCTACCAACATCTACCTGTCTCA 333
QY 544 ACCTTGTCTGGCAGATGCCCTTAGCCACAGTACCTTGCCTTCCAGAGTGTGAATTACC 603
Db 334 ACCTGGCGTAGCCGACGAGCTTTCATGCTGAGCGTGCCTTCTGTGGCCTCGTGGCGG 393
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QY 604 TAATGGAAACATGSCCATTTTGGAAACCATCTTTTGCAGATAGTGATCTTCCATAGATTACT 663
Db 394 CCCTGCGCCACTGSCCTTCGGCTCCGTGCTGTGCGCGCGGTGCTCAGCGTCGACGCC 453
QY 664 ATAACATGTTTACACGATATTCACCTCTGCAACCATGAGTGTGATCGATACATTCGAG 723
Db 454 TCAACATGTTTACACGCGTCTTCTGTCTCACCGTGTGTCAGCGTGGACCGCTAGCTGGCGG 513
QY 724 TCTGCCACCTGCAAGGCTTAGATTTCCGTACTCTCCCGAAATGCCAAATATATCAATG 783
Db 514 TGTGTACCTCTGCGGCGGCGACCTACCGGCGGCGCCAGCGTGGCCAAAGCTCATCAACC 573
QY 784 TCTGCAACTGGATCCTCTCTTTCAGCCATTTGGTCTTCTGTAATGTTTCATGGCTACAAACA 843
Db 574 TGGCGGTGGTGGCATCCCTGTTGGTCACTCTCCCATCGCCATCTTCGCAGACACCA 633
QY 844 AATACAGGCAAGGTTCCATAGATGTACACTAACAATCTCTCATCCAACTGGTACTGGG 903
Db 634 GACCGGCTCGCGGCGGCGAGCCCTGGCTTGCACCTGCAAGTGCCACACCCGGCCTGGT 693
QY 904 ABAACCTCGTGAAGATCTGTTTTCATCTTCGCTTTCATTTATGCCAGTGTCTCATCATTA 963
Db 694 CGGCAGTTCGTTGGTCTACACTTTCCTGCTGGGCTTCCTGCTGCCGCTGCTGGCCATTG 753
QY 964 CCGTGTCTATGGACTGATGATCTTGGCCCTCAAGAGTGTCCGATGCTCTCTGGCTCCA 1023
Db 754 GYCTGTGCTACTGCTCATCGTGGCAAGATGCGCGCGTGGCCCTGYGCMGGCTGGC 813
QY 1024 AAGAAAGGACAGGAATCTTGAAGGATCACCAGATGGTGGTGGTGGTGGTGGTGGTGGT 1083
Db 814 AGCAGCGCAGGCGCTCGAGAGAAATACACAGGCTGGTGGTGGTGGTGGTGGTGGTGGT 873
QY 1084 TCATCGTCTGCTGACTCCCATTCACATTTACGTCATCATTAAGCCCTTGGTTACAATCC 1143
Db 874 TTGTGCTCTGCTGATGCTTCTACGTTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGT 933
QY 1144 CAGAACTACCTTCCAGACTGTTTCTTGGCACTTCTGCACTTCTAGGTTACAAACA 1203
Db 934 TTGATGCCACCGTCAAC-----CACGTGTCCTTATCCTTAGCTATGCCAAYA 981
QY 1204 GCTGCCTCAACCCAGTCTTTATGCAATTTCTGGATGAAGAACTTCAAGCATGCTTC 1259
Db 982 GCTGGCCAAACCCVATTCTCTATGGYTTCTCTATGGYTTCTCTCCGACAACTTCGCGCATYCTTC 1037

RESULT 10
US-10-995-561-13298
; Sequence 13298, Application US/10995561
; Publication No. US20050272054A1
; GENERAL INFORMATION:
; APPLICANT: CARGILL, Michele et al.
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; TITLE OF INVENTION: CARDIOVASCULAR DISORDERS AND DRUG RESPONSE, METHODS OF
; TITLE OF INVENTION: DETECTION AND USES THEREOF
; FILE REFERENCE: CL001559
; CURRENT APPLICATION NUMBER: US/10/995,561
; CURRENT FILING DATE: 2004-11-24
; NUMBER OF SEQ ID NOS: 85702
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 13298
; LENGTH: 86131
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-995-561-13298

Query Match 8.7%; Score 187.6; DB 6; Length 86131;
Best Local Similarity 51.9%; Pred. No. 5.4e-45;
Matches 434; Conservative 8; Mismatches 382; Indels 12; Gaps 1;

QY 424 TCAGATCATGCCCTCTACTTCATCTCGTGGTGGGCTCTTCGGAAACTTCTCTGG 483
Db 6215 TCGCTATCCAGTGCATCTACGCGCTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGG 6274
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484 TCATGTATGTGTCAGATACCAAGATGAAGTCCGACCATCTACATTTTCA 543
Db |||||
6275 TCATCTTCGTGATCCCTTCGCTAGCCAGATGAAGCGCTACCAACATCTACCTGCTCA 6334
QY |||||
544 ACCTTCCTCTGGCAGATGCTTAGCCACCAAGTACCTGCCCTTCCAGAGTGTGAATACC 603
Db |||||
6335 ACCTGGCCGTAGCCGAGAGCTTTCATGCTGAGCGTGCCTTCGTGGCCGTCTGGCCG 6394
QY |||||
604 TAAATGGGAACATGGCCATTTGGAAACCATCTTTTGAAGATAGTATCTCCATAGATTACT 663
Db |||||
6395 CCTTGGCCCACTGGCCCTTCGGCTCGCTGTGTGCGCGGTGTCTCAGCGTCCGAGCGCC 6454
QY |||||
664 ATAAACATGTTCAACAGCATATACACCTCTGACCATGATGTTGATCGATACATTTGACG 723
Db |||||
6455 TCAACATGTTCAACAGCGTCTTCTGCTCACCGTGTCTAGCGTGGACCGCTACGTGGCCG 6514
QY |||||
724 TCTGCCACCTCTGCAAGGCTTAGATTTCCTGTAATCTCCCGAAATGCAAAATTTATCAATG 783
Db |||||
6515 TGGTGACACCTCTGCGCGGGGACCTACCGGGGCGCAGCGTGGCCAGCTCATCAACC 6574
QY |||||
784 TCTGCAACTGGATCTCTCTAGCCATTTGGCTTCTCTGTATGTTTCATGGCTACAAACAA 843
Db |||||
6575 TGGCGGTGTGGCTGGCATCCCTTGTGTCATCTCCCATCGCATCTTTCGACAGACCA 6634
QY |||||
844 AATACAGGCAAGGTTCCATAGATTGTACACTAACATTTCTCATCCAACTGCTACTGGG 903
Db |||||
6635 GACCGGCTCGCGCGGCCAGCGCGTGGCTGTCAACCTGACGTGGGCCACACCGCGGCTGT 6694
QY |||||
904 AAAACCTCTGAAAGATCTGTGTTTTCATCTTGGCCCTTCAATATGCGAGTGTCTCATATTA 963
Db |||||
6695 CGGCAGTYTTCGTGGTCTACATTTCTCTGCTGGCTTCTGCTGCCGTGGCTGGCCATG 6754
QY |||||
964 CGGTGTGATGATGATGATCTTGGGCTCAAGAGTGTCCGATGCTCTCTGGCTCCA 1023
Db |||||
6755 GYCTGTGCTACCTGTCTCATCTGGGCAAGATGGCGCCGTGGCCCTGYCGMKGGCTGGC 6814
QY |||||
1024 AAGAAAGNACAGGAATCTTGGAGGATCACCAGGATGCTGTGGTGGTGGTGTCT 1083
Db |||||
6815 AGCAGCGAGGCGCTCGGAGAGAAATACCAAGGCTGTGTGATGGTGTGTGTCT 6874
QY |||||
1084 TCATCTGTCTGCTGCACTCCCATTTACATTTACCTATTAAGCCTTGGTTTACAAATCC 1143
Db |||||
6875 TTGTGCTCTGTGTGATGCCCTTCTAGTGTGAGCTGTGTAACCTCTCTGACCGCC 6934
QY |||||
1144 CAGAACTAGTTCAGACTGTTTCTTGGCACTTCTGCAATTTGCTTAGTTTACAAACA 1203
Db |||||
6935 TTGATGCCACCGTCAAC-----CACGTGCTCCCTTATCCTTYAGCTATGCCAAYA 6982
QY |||||
1204 GCTGCTCAACCCAGTCTTTATGCAATTTCTGGATGAAACTTCAACAGATGCTTC 1259
Db |||||
6983 GCTGCGCCAAACCCYAATTCATATGGTTCCTCTCCGACAACTTCCGCGGATYCTTC 7038

RESULT 11

US-11-136-527-2101
; Sequence 2101, Application US/11136527
; Publication No. US20050287570A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William M
; TITLE OF INVENTION: Probe Arrays For Expression Profiling of Rat Genes
; FILE REFERENCE: 031896-041000 (AM101086)
; CURRENT APPLICATION NUMBER: US/11/136,527
; PRIOR FILING DATE: 2005-05-25
; PRIOR APPLICATION NUMBER: US 60/574,294
; PRIOR FILING DATE: 2005-05-26
; NUMBER OF SEQ ID NOS: 362830
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 2101
; LENGTH: 3635
; TYPE: DNA
; ORGANISM: Rattus norvegicus

US-11-136-527-2101

Query Match 8.2%; Score 177; DB 7; Length 3635;
Best Local Similarity 52.6%; Pred. No. 8.7e-43;
Matches 443; Conservative 0; Mismatches 385; Indels 15; Gaps 2;
QY 420 GCCATCAGCATCATGGCCCTCTACTCCATCGTGTGCGTGGTGGGCTCTTCGGAACATTC 479
Db |||||
316 GCCATTCATCTCTTTTCATCTACTCCGTGTGTATGCTTGGTGGAGTGTGTGGAACTCC 375
QY 480 CTGTGATGTATGTGATGTAGATACACCAAGATGAAGACTGCCACCAACATCTACATT 539
Db |||||
376 ATGTGATTTTACGTGATCTCGCTACGCCAAGATGAAGACCGCAACCAACATCTACATT 435
QY 540 TTCAACCTTGTCTGCGAGATGCGCTTAGCCACAGTACCTCCCTTCCAGAGTGTGAAT 599
Db |||||
436 CTAAACCTTGGCCCATTTGCTGATGAGTGTCTCATGCTCAGGCTGCCCTTCTGTGCTACTTC 495
QY 600 TACCTAATGGGAACATGGCCATTTTGGAAACCATCTTTTGAAGATAGTATCTCCATAGAT 659
Db |||||
496 AGCTGTGTGGCCCACTGGCCCTTTGGCGGCTACTTTGGCGCTGTGTCTCAGCGTGGAT 555
QY 660 TACTATAACATGTTTCCACAGCATATTACCTCTGCAACCATGAGTGTGTGATCGATACATT 719
Db |||||
556 GCAGTCAACATGTTTACCAGCATCTACTGTCTGACTGTGTGTAGTGTGGACGCTATGTG 615
QY 720 GCAGTCTGCCACCTGTCAAAGGCTTAGATTTCGCTACTCCCGGAAATGCCAAATATATC 779
Db |||||
616 GCTGTGGWGCACCCGATCAAGGACGCGGCTACCGTGGGCCCACTGTGTGGCCAAAGTAGTG 675
QY 780 AATGTCTGCAACTGGATCCTCTTTTACGCAATTTGGTCTTCTGTATATGTTTCAATGGC--T 836
Db |||||
676 AACCTGGGCGTGTGGTGTCTGCTACTGTGTTATCTTGGCCCATCGTGTCTTCTCACGC 735
QY 837 ACAACAAATATACAGGCAAGGTTCCATAGATTGTGACTAACATTTCTCTCATCCAACCTCG 896
Db |||||
736 ACCGAGAGCCAAACAGCGATGGCAAGGCTGCTCAACATGCTCATGCCGAGCCGCGCCAG 795
QY 897 TACTCGGAAACCTCTGTGAAGATCTGTGTTTTCATCTTCGCTTCAATATGCGAGTGTCTC 956
Db |||||
796 CGCTGTGGTGGGCTTGTCTTTATACATTTTCTCATGGGCTTCTGTGCTGTGTGCGG 855
QY 957 ATCATTTACGCTGTGTATGGAATGATCTTTCGCGCTCAAGAGTGTCCGCAATGCTCTCT 1016
Db |||||
856 GCCATCTGCTGTGTGTAGTGTCTCATTTTGCAGATGCGCATGGTGGCCCTCAAGGCC 915
QY 1017 GGCTCAAGAAAGAGACAGGAATCTTGAAGATCACCAGGATGGTGTGTGTGTGTG 1076
Db |||||
916 GGCTGGCAGCAGCGCAAGCGCTCAGAGCGCAAGATCACTCTAATGGTGTATGATGGTGGTG 975
QY 1077 GCTGTGTTTCATCTGTCTGGGACTCCCATTTCAATTTACGTTCATATTAAGCCTTGGTT 1136
Db |||||
976 ATGGTTTTGTTCATCTGTCTGGATGCTTCTTACGTTGTACAGTGTCAACGTTGTGCGC 1035
QY 1137 ACAATCCAGAAACTACGTTCCAGACTGTTTCTTGGCACTTCTTGCATTCCTCTAGGTTAC 1196
Db |||||
1036 GAGCAAGAGCAGCGCCACGGT-----GAGCCAGTTGTCTGTCTCATCTCGGCTAT 1083
QY 1197 ACAACAGCTGCTCAACCCAGTCTTATGATTTCTGGATGAACACTTCAACCATGTC 1256
Db |||||
1084 GCCAATAGTGTGTGCAACCCCATCTCTACGGGCTTCTGTGCGAACAACTTCAAGCGCTCT 1143
QY 1257 TTC 1259
Db |||||
1144 TTC 1146

RESULT 12

US-11-136-527-2159
; Sequence 2159, Application US/11136527
; Publication No. US20050287570A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth

Db 1001 TTGTGCTATGCTGGATGCCATTCTATGTAGTGAGCTTCTGAATCTGTTTGTCCACGACC 1060
QY 1144 CAGAAACTAGTTCAGACATGTTTCTTGGCATTCTGCAATTCGTCTAGGTTACACAAACA 1203
Db 1061 TCGATGCCATGTCAACCATGTGTCCCTCATCCTCAGCTATGCC-----AACA 1108
QY 1204 GCTGCCTCACCAGTCCCTTATGCAATTTCTGGATGAACATTCACACGATGCTTC 1259
Db 1109 GCTGTGCCAACCCGATTCTCTATGGTTTCTCTCAGACAACTTCGACGCTCTTTC 1164
RESULT 14
US-10-533-355-9
; Sequence 9, Application US/10533355
; Publication No. US2005027040A1
; GENERAL INFORMATION:
; APPLICANT: University of Medicine and Dentistry of New Jersey
; APPLICANT: Black, Ira B.
; TITLE OF INVENTION: A METHOD FOR INCREASING SYNAPTIC GROWTH OR PLASTICITY
; FILE REFERENCE: UMD-0016
; CURRENT APPLICATION NUMBER: US/10/533,355
; CURRENT FILING DATE: 2005-04-29
; PRIOR APPLICATION NUMBER: US 60/422,986
; PRIOR FILING DATE: 2002-11-01
; NUMBER OF SEQ ID NOS: 16
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 9
; LENGTH: 1865
; TYPE: DNA
; ORGANISM: Rattus norvegicus
US-10-533-355-9

Query Match 7.3%; Score 158.8; DB 6; Length 1865;
Best Local Similarity 50.5%; Pred. No. 1.9e-37;
Matches 422; Conservative 0; Mismatches 402; Indels 12; Gaps 1;
QY 424 TCACGATCGGCCCTCTACTCCATCGTGTGGTGGGCTCTTCGGAACTTCCTCG 483
Db 189 TAACATCCAGTGCATCTATGCGCTCGTGTCTGTGGGCCCTGTAGGAAACGCCCTCG 248
QY 484 TCATGTATGTGATGTGCAGATACACCAAGATGAAGACTGCCACCAACATCTCATTTTCA 543
Db 249 TCATATTCGTGATCTTACGCTATGCCAAATGAAGACGCCACCAACATCTACCTGCTCA 308
QY 544 ACCTTGTCTGGCAGATGCCCTTAGCCACCAGTACCCTGTGCGCTTCCAGAGTGAATTACC 603
Db 309 ACCTGGCCGTCGTGATGAGCTCTTCATGCTCAGTGTGCCATTTGTGGCTCGCGCGCTG 368
QY 604 TAATGGNAACATGGCCATTGGAAACCATCTTTTGGCAAGATAGTGATCTCCATGATTACT 563
Db 369 CCTGGCCCACTGGCCGTTTCGGGGCGGTGCTGTGCGCGCAGTGCTTAGTGTGGACGGCC 428
QY 664 ATAACTGTTTACACAGCATATTCACCCCTCTGCAACCATGATGTGTGATCGATACATTCGAC 723
Db 429 TTAACATGTTACAGATGCTTCTGCTCAGCTGCTCAGCGTGATCGCTATGTGGCTG 488
QY 724 TCTGCCACCTGTCAAGCCCTTAGATTTTCGTTACTCCCGAAATGCCAAATATCAATG 783
Db 489 TAGTGACCCCTCTGCAGCTGCCACCTACCGGGGCCAGCGGTGGCCAAAGCTAATCAACC 548
QY 784 TCTGCAACTGGATCTCTCTTAGCCATTGGTCTTCTGTATGTTTCATGGCTACACAA 843
Db 549 TGGGAGTGTGGCTAGCATCTCTGCTGCACCCCTGCCATCGCAGTCTTCGCTGACACTA 608
QY 844 AATACAGGCAAGGTTCCATAGATTGTACACTAATCTCTCATCAACCTGTTACTGGG 903
Db 609 GGCAGCTGTGGGGGTGAGCGAGTAGCTTGCAACCTGACCTGGCCCTGACCCGGCCTGGT 568
QY 904 AAAACCTCGTGAAGATCTGTGTTTTCATCTTCGCCCTTCATTAATGCCAGTGTCTCATTA 963
Db 669 CTCAGTCTTTGTGATCTATACATTTTTTTGTGGGCTTCTCTACTCCCGGTTCTGGCTATCG 728

QY 964 CGTGTGCTATGAGCTGATGATCTTTGCGCTCAAGAGTGTCCGATGCTCTCTGGCTCA 1023
Db 729 GATTATGTTACCTGCTTATCGTGGCAAGATGCGTGTCTGCGGCCCTGGGCTGGC 788
QY 1024 AAGAAAAGCAGGAATCTTGAAGATCACACGATGCTGTGGTGGTGGTGGTGTGT 1083
Db 789 AACCAAGGAGGCGCTCAGAGAAGATCACTAGGCTCGTGTAAATGGTGGTGTGTCT 848
QY 1084 TCATCGTCTGTGGTGGTCCCATTTACATTTTACGTATCATTAAGCCTTTGGTTACAATCC 1143
Db 849 TTGTGCTATGTGGATGCCATTTCTATGTAGTGACGCTTCTGAATCTGTTTGTACACGCC 908
QY 1144 CAGAAACTACGTTCCAGACTGTTTCTTGGCACTTCTGCACTTCTAGGTTACACAAACA 1203
Db 909 TCGATGCCACTGTCAACCATGTGTCCCTCATCCTCAGCTATGCC-----AACA 956
QY 1204 GCTGCCTCAACCCAGTCTCTTATGCAATTTCTGGATGAACATTCACACGATGCTTC 1259
Db 957 GCTGTGCCAACCCGATTCTCTATGGTTTCTCTCAGACAACTTCGACGCTCTTTC 1012
RESULT 15
US-10-750-185-62128/c
; Sequence 62128, Application US/10750185
; Publication No. US20050260603A1
; GENERAL INFORMATION:
; APPLICANT: MMI GENOMICS, INC.
; APPLICANT: Denise, Sue K.
; APPLICANT: KERR, Richard
; APPLICANT: ROSENFELD, David
; APPLICANT: HOLM, Tom
; APPLICANT: BATES, Stephen
; APPLICANT: FANTIN, Dennis
; TITLE OF INVENTION: COMPOSITIONS FOR IMPROVING BOVINE TRAITS
; FILE REFERENCE: MM11100-2
; CURRENT APPLICATION NUMBER: US/10/750,185
; CURRENT FILING DATE: 2003-12-31
; PRIOR APPLICATION NUMBER: US 60/437,482
; PRIOR FILING DATE: 2002-12-31
; NUMBER OF SEQ ID NOS: 64922
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 62128
; LENGTH: 856
; TYPE: DNA
; ORGANISM: Bovine 19866881260208
US-10-750-185-62128

Query Match 7.0%; Score 151.8; DB 6; Length 856;
Best Local Similarity 93.0%; Pred. No. 1.4e-35;
Matches 159; Conservative 0; Mismatches 12; Indels 0; Gaps 0;
QY 1209 CTCACACCCAGTCTCTTATGCAATTTCTGGATGAACATTCACACGATGCTTCAGAGATTTC 1268
Db 856 CTGAACCCCGTCTTTATGCAATTTCTGGATGAACATTCACACGATGCTTCAGAGATTTC 797
QY 1269 TGTATCCCAACCTCTTCCAAACATTTCAGCAACAAACCTCCACTCGAATTCGTCAGAACACT 1328
Db 796 TGTATCCCAACCTCTTCCCACTTTCAGCAACAAACCTCCACTCGAATTCGTCAGAACACT 737
QY 1329 AGAGACCAACCCCTCCACGCGCCCAATACAGTGGATAGAACTAATATCATCAGCTA 1379
Db 736 AGAGACCAACCCCTCCACGCGCCCAATACAGTGGATAGAACTAATACCATCAGGTA 686

Search completed: January 9, 2006, 15:42:34
Job time : 311.514 secs

Db 121 GCGAAGGAGGAGGCTGAGGCGCTTGGAAACCGAAGAGTCTCGGTGCTCCTGGCTACCT 180
Qy 181 CGCAGACGGTGC CGCGCGCGTCAAGTACCATGGACAGAGCGCTGCCCGCAAGAACG 240
Db 181 CGCAGACGGTGC CGCGCGCGCGTCAAGTACCATGGACAGAGCGCTGCCCGCAAGAACG 240
Qy 241 CAGACAAATGCTGATGCTTGGGCGTCTCAAGTTGCTCCCGACGACCCAGCGCCCGGTT 300
Db 241 CAGACAAATGCTGATGCTTGGGCGTCTCAAGTTGCTCCCGACGACCCAGCGCCCGGTT 300
Qy 301 CTGGGTCAACTTGTCCCACTTAGATGGCAACCTGACCGACCATGCGGTCCGAAACCGCA 360
Db 301 CTGGGTCAACTTGTCCCACTTAGATGGCAACCTGTCGACCCATGGCGTCCGACCGCA 360
Qy 361 CCAACCTGGCGGGGAGAGACGCTGTGCCCTCCGACCGGAGTCCCTCCATGATACGG 420
Db 361 CCAACCTGGCGGGGAGAGACGCTGTGCCCTCCGACCGGAGTCCCTCCATGATACGG 420
Qy 421 CCATCAGATCATGGCCCTCTACTCCATCGTGTGGTGGGCTCTTCGGAACCTTCC 480
Db 421 CCATCAGATCATGGCCCTCTACTCCATCGTGTGGTGGGCTCTTCGGAACCTTCC 480
Qy 481 TGGTCAATGTGATGTGTCAGATACCAAGATGAAGACTGCCACCAACATCTACATTT 540
Db 481 TGGTCAATGTGATGTGTCAGATACCAAGATGAAGACTGCCACCAACATCTACATTT 540
Qy 541 TCAACCTTCTCTGGCAGATGCCCTTAGCCACCAAGTACCTGCGCTTCCAGAGTGTGAATT 600
Db 541 TCAACCTTCTCTGGCAGATGCCCTTAGCCACCAAGTACCTGCGCTTCCAGAGTGTGAATT 600
Qy 601 ACTAATGGGAACATGGCCATTTGGAAACCATCTGCTTGGCAAGATAGTGATCCATAGATT 660
Db 601 ACTAATGGGAACATGGCCATTTGGAAACCATCTTGGCAAGATAGTGATCCATAGATT 660
Qy 661 ACTATAACATGTTACAGCATATTCACCTCTGACCATGATGTTGATCGATACATTTG 720
Db 661 ACTATAACATGTTACAGCATATTCACCTCTGACCATGATGTTGATCGATACATTTG 720
Qy 721 CAGTCTGCCACCTGTCAAGGCTTAGATTTCCGTAATCTCCCGAAGTGCAGAAATATCA 780
Db 721 CAGTCTGCCACCTGTCAAGGCTTAGATTTCCGTAATCTCCCGAAGTGCAGAAATATCA 780
Qy 781 ATGTCTGCAACCTGTCAAGGCTTAGATTTCCGTAATCTCCCGAAGTGCAGAAATATCA 840
Db 781 ATGTCTGCAACCTGTCAAGGCTTAGATTTCCGTAATCTCCCGAAGTGCAGAAATATCA 840
Qy 841 CAAATACAGGCAAGGTTCCATAGATTTGATACATTAATCTCTCATCCAACTGGTACT 900
Db 841 CAAATACAGGCAAGGTTCCATAGATTTGATACATTAATCTCTCATCCAACTGGTACT 900
Qy 901 GGGAAACCTCGTGAAGATCTGTGTTTTCATCTTCCCTTCATATGCGAGTGCTCATCA 960
Db 901 GGGAAACCTCGTGAAGATCTGTGTTTTCATCTTCCCTTCATATGCGAGTGCTCATCA 960
Qy 961 TTACCGTGTCTATGACATGATCTTGGGCTCAAGAGTGCAGCATGCTCTCGGCT 1020
Db 961 TTACCGTGTCTATGACATGATCTTGGGCTCAAGAGTGCAGCATGCTCTCGGCT 1020
Qy 1021 CCAAGAAAGGACAGGAATCTTCGAAGGATCAACAGGATGGTGTGGTGGTGGCTG 1080
Db 1021 CCAAGAAAGGACAGGAATCTTCGAAGGATCAACAGGATGGTGTGGTGGTGGCTG 1080
Qy 1081 TGTTCATCGTCTGTGGACTCCCATTCACATTTAOGTCATCAATTAAGCCTTGGTTACAA 1140
Db 1081 TGTTCATCGTCTGTGGACTCCCATTCACATTTAOGTCATCAATTAAGCCTTGGTTACAA 1140
Qy 1141 TCCAGAAACTAGTCTCAGACTGTTTCTTGGCACTTCTGCACTTCTAGGTTACACAA 1200
Db 1141 TCCAGAAACTAGTCTCAGACTGTTTCTTGGCACTTCTGCACTTCTAGGTTACACAA 1200
Qy 1201 ACAGCTGCCTCAACCCAGTCTTTTATGCAATTTCTGGATGAAACCTTCAACAGATGTTCA 1260
Db 1201 ACAGCTGCCTCAACCCAGTCTTTTATGCAATTTCTGGATGAAACCTTCAACAGATGTTCA 1260

Qy 1261 GAGAGTTCTGTATCCCAACCTCTTCCAACATTTGACGAACAAACTCCCACTCGAATTCGTC 1320
Db 1261 GAGAGTTCTGTATCCCAACCTCTTCCAACATTTGACGAACAAACTCCCACTCGAATTCGTC 1320
Qy 1321 AGAACACTAGAGACCAACCCCTCCACGGCCAATACAGTGGATAGAACTAATCATCAGCTAG 1380
Db 1321 AGAACACTAGAGACCAACCCCTCCACGGCCAATACAGTGGATAGAACTAATCATCAGCTAG 1380
Qy 1381 AAAATCTGGAGAGCAGAAACTGCTGCTGGTGGCCCTAAACAGGCTCTATGCCATTTCCGACCTT 1440
Db 1381 AAAATCTGGAGAGCAGAAACTGCTGCTGGTGGCCCTAAACAGGCTCTATGCCATTTCCGACCTT 1440
Qy 1441 CACCAAGCTTAGAAGCCACCATGTATGTGGAGCAGGTTGCTTCAAGATGTGTAGGAGG 1500
Db 1441 CACCAAGCTTAGAAGCCACCATGTATGTGGAGCAGGTTGCTTCAAGATGTGTAGGAGG 1500
Qy 1501 CTCTAATTTCTTAGGAAAGTGCCTACTTTTAGGTCTATCCAACTCTTTCTCTCTGGCCA 1560
Db 1501 CTCTAATTTCTTAGGAAAGTGCCTACTTTTAGGTCTATCCAACTCTTTCTCTCTGGCCA 1560
Qy 1561 CTCTGCTCTGCACATTTAGAGGACAGCCAAAGTAAAGTGGAGCATTTGGAGGAAAGGAA 1620
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Db 1681 GTATGTGAATTTGAAGTCTATATAAAGGTGACCTTCTGTCTGTAAGATTTTATTTCAA 1740
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Db 1741 GCAATAATTTATGACCTCAACAAAGAAACCATCTTTTGTAAAGTTCAACCGTAGTAA 1800
Qy 1801 CATAAAGTAAATGCTACCTCTGATCBAAGCACTTGAATGGAAGGTCGAGTCTTTTAG 1860
Db 1801 CATAAAGTAAATGCTACCTCTGATCBAAGCACTTGAATGGAAGGTCGAGTCTTTTAG 1860
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Db 1861 TGTTTTTGCAAGGGAATGAATCCATTTATTTTAGACTTTTAACTTCAACTTAAAT 1920
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Db 1921 TAGCATCTGGCTAAGGCATCATTTTCACTCCATTTCTTGGTTTGTATGTTTAAAAA 1980
Qy 1981 AATAACATCTCTTTTCTAGCTCCATTAATTCGAAGGGAAGATTTAGCATGAAAGTAA 2040
Db 1981 AATAACATCTCTTTTCTAGCTCCATTAATTCGAAGGGAAGATTTAGCATGAAAGTAA 2040
Qy 2041 TCTGAAACACAGTCACTGTCTCANCTGTAGAAAGGTTGATTTCTCATGCACTNCAATAC 2100
Db 2041 TCTGAAACACAGTCACTGTCTCANCTGTAGAAAGGTTGATTTCTCATGCACTNCAATAC 2100
Qy 2101 CCAAGAGTCACTATGAGGGAATTTTTCATTTTAGGCTTTTCTAGGTTTGTCTCTGGAAT 2160
Db 2101 CCAAGAGTCACTATGAGGGAATTTTTCATTTTAGGCTTTTCTAGGTTTGTCTCTGGAAT 2160
Qy 2161 TC 2162
Db 2161 TC 2162

RESULT 2

US-09-113-426-1
; Sequence 1, Application US/09113426
; Patent No. 6337207
; GENERAL INFORMATION:
; APPLICANT: Kreek, Mary J
; APPLICANT: Laforge, Karl S

; APPLICANT: Yu, Lei
; APPLICANT: Tischfield, Jay A.
; TITLE OF INVENTION: ALLELES OF THE HUMAN MU OPIOID RECEPTOR, DIAGNOSTIC
; TITLE OF INVENTION: METHODS OF USING SAID ALLELES, AND METHODS OF TREATMENT
; TITLE OF INVENTION: BASED THERON
; FILE REFERENCE: 600-1-226
; CURRENT APPLICATION NUMBER: US/09/113,426
; CURRENT FILING DATE: 1998-07-10
; NUMBER OF SEQ ID NOS: 7
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 1
; LENGTH: 2162
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (2063)
; OTHER INFORMATION: No. 6337207feature for this position in GeneBank.
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (2091)
; OTHER INFORMATION: No. 6337207feature for this position in GeneBank.
; US-09-113-426-1

Query Match 99.8%; Score 2158.4; DB 3; Length 2162;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 2161; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 1 GGAATTCGGCTATAGGCAGAGGAGAATGTGATGCTCAGATGCTCAGCTCGGTCCCTCCGCTGA 60
DB 1 GGAATTCGGCTATAGGCAGAGGAGAATGTGATGCTCAGATGCTCAGCTCGGTCCCTCCGCTGA 60
QY 61 CGCTCCTCTGCTCAGCCAGGAGCTGGTTCCTGTAAGAAACAGCAGAGCTGTGGCAGC 120
DB 61 CGCTCCTCTGCTCAGCCAGGAGCTGGTTCCTGTAAGAAACAGCAGAGCTGTGGCAGC 120
QY 121 GGGGAAAGGAGCGGCTGAGCGCTTGGAAACCCGAAAGTCTCGGTGCTCTCGGTACCT 180
DB 121 GGGGAAAGGAGCGGCTGAGCGCTTGGAAACCCGAAAGTCTCGGTGCTCTCGGTACCT 180
QY 181 CGCACAGCGGTGCCCGCCGCGCTCAGTACCATGGAAGCAGCAGCGCTGCCGCCAGAAAG 240
DB 181 CGCACAGCGGTGCCCGCCGCGCTCAGTACCATGGAAGCAGCAGCGCTGCCGCCAGAAAG 240
QY 241 CCAGCAATGCACTGATGCTTGGCGTACTCAAGTGTGCTCCGAGCAGCGCCCGGTT 300
DB 241 CCAGCAATGCACTGATGCTTGGCGTACTCAAGTGTGCTCCGAGCAGCGCCCGGTT 300
QY 301 CCTGGGTCACTTCCCACTTAGATGGCAACCTGACCGACCCATGGGTCCGAAACCGCA 360
DB 301 CCTGGGTCACTTCCCACTTAGATGGCAACCTGACCGACCCATGGGTCCGAAACCGCA 360
QY 361 CCAACCTGGGCGGAGAGACAGCTGTGCCCTCCGAGCCGCGAGTCCCTCATGATCAGG 420
DB 361 CCAACCTGGGCGGAGAGACAGCTGTGCCCTCCGAGCCGCGAGTCCCTCATGATCAGG 420
QY 421 CCATCAGCATCATGGCCCTTACTCCATCGTGTGGGTGGGGCTCTTCGGAACCTTC 480
DB 421 CCATCAGCATCATGGCCCTTACTCCATCGTGTGGGTGGGGCTCTTCGGAACCTTC 480
QY 481 TGGTCATGATGATGATGTCAGATACACCAAGATCAGACTGCCACCAACATCTACATTT 540
DB 481 TGGTCATGATGATGATGTCAGATACACCAAGATCAGACTGCCACCAACATCTACATTT 540
QY 541 TCAACCTTGTCTGGCAGATGCTTAGCCACAGTACCTGCCCTTCCAGAGTGTGAATT 600
DB 541 TCAACCTTGTCTGGCAGATGCTTAGCCACAGTACCTGCCCTTCCAGAGTGTGAATT 600
QY 601 ACCTAATGGGAACATGGCCATTTGGAAACCATTCCTTTGCAAGATAGTGTATCTCCATAGATT 660
DB 601 ACCTAATGGGAACATGGCCATTTGGAAACCATTCCTTTGCAAGATAGTGTATCTCCATAGATT 660
QY 661 ACTATAACATGTTCCACGAGCATATTCACCCCTCTGCACCATGAGTGTGATCGATACATTG 720

DB 661 ACTATAACATGTTCCACGAGCATATTCACCCCTCTGCACCATGAGTGTGATCGATACATTG 720
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DB 721 CAGTCTGCCACCTGTCAAGGCTTAGATTTCCTGTAATTCCTCCGAAATGCCAAATATATCA 780
QY 781 ATGTCTGCAACCTGATCTCTCTTCAGCCATGGTCTCTCTGTAATTTTATGCTATGCTACAA 840
DB 781 ATGTCTGCAACCTGATCTCTCTTCAGCCATGGTCTCTCTGTAATTTTATGCTATGCTACAA 840
QY 841 CAAAATACAGGCAAGGTTCCATGATTTGTAACATCTCTCTCCACCACTGGTACT 900
DB 841 CAAAATACAGGCAAGGTTCCATGATTTGTAACATCTCTCTCCACCACTGGTACT 900
QY 901 GGGGAAACCTCGTGAAGATCTGTGTTTTCATCTTCGCTTTCATTTATGCTGCTCATCA 960
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DB 961 TTACCGTGTCTATGGAATGATCTTCGCTCAAGAGTGTCCGATGCTCTCTGCT 1020
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DB 1021 CAAAAGAAAGGACAGGAATCTTCGAAGATCACAGGATGGTGTGCTGGTGGTGGCTG 1080
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DB 1141 TCCAGAGAACTAGCTTCCAGACTGTTTCTTTGGCACTTCTGCAATGCTCTAGGTTACAA 1200
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DB 1201 ACAGTGTCTCAACCCAGTCTTTATGCAATTTCTGGAATGAAACTTCAAGCATGCTTCA 1260
QY 1261 GAGAGTCTCTATCCCAACCTCTTCCAACTTTGAGCAACAACTCCCACTCGAATTCCTC 1320
DB 1261 GAGAGTCTCTATCCCAACCTCTTCCAACTTTGAGCAACAACTCCCACTCGAATTCCTC 1320
QY 1321 AGAACACTAGAGACCACTCCCTCCAGCGCCAAATACAGTGGATAGAACTTAATCATCAGTAG 1380
DB 1321 AGAACACTAGAGACCACTCCCTCCAGCGCCAAATACAGTGGATAGAACTTAATCATCAGTAG 1380
QY 1381 AAAATCTGGAAGCAGAAACTGCTCCGTGGTCCCTAACAGGGTCTCATGCGCATTCGACCTT 1440
DB 1381 AAAATCTGGAAGCAGAAACTGCTCCGTGGTCCCTAACAGGGTCTCATGCGCATTCGACCTT 1440
QY 1441 CACCAAGCTTAGAAGCCACCATGATGTTGGAAGCAGGTGCTTCAAGAACTGTAGGAGG 1500
DB 1441 CACCAAGCTTAGAAGCCACCATGATGTTGGAAGCAGGTGCTTCAAGAACTGTAGGAGG 1500
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DB 1501 CTCTAATCTCTAGGAAAGTGCCTACTTTTAGGTTCATCCAACTCTTCTCTCTCGGCCA 1560
QY 1561 CTCTGCTCTGCACATTAGAGGGAAGCAGCAAAAGTAAAGTGGAGCATTTGGAAAGAAAGGAA 1620
DB 1561 CTCTGCTCTGCACATTAGAGGGAAGCAGCAAAAGTAAAGTGGAGCATTTGGAAAGAAAGGAA 1620
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DB 1621 TATACACACCGGAGGTCCAGTTTGTGCAAGACACCGAGTGGAAACCAACCCATCGTG 1680
QY 1681 GTATGCAATTTGAAGTCAATCAAAAGTGAACCTTCTGCTGTGAAGATTTTATTTTCAA 1740
DB 1681 GTATGCAATTTGAAGTCAATCAAAAGTGAACCTTCTGCTGTGAAGATTTTATTTTCAA 1740
QY 1741 GCAAAATTTATGACCTCAACAAAGAAAGAACCATCTTTTGTAAAGTTTCAACCGTAGTAACA 1800

Db 1741 GCBAATATTTATGACCTCAACAAAGAAACCATCTTTTGTAAAGTTTACCGCTAGTAACA 1800
QY 1801 CATAAAGTAATGCTACCTCTGATCAAGCACCTTGAATGGAAGGTCCGAGTCTTTTAG 1860
Db 1801 CATAAAGTAATGCTACCTCTGATCAAGCACCTTGAATGGAAGGTCCGAGTCTTTTAG 1860
QY 1861 TGTGTTTTGCAAGGAATGAATCCATTAATCTATTTTAGACTTTTAACTTCAACTTAAAT 1920
Db 1861 TGTGTTTTGCAAGGAATGAATCCATTAATCTATTTTAGACTTTTAACTTCAACTTAAAT 1920
QY 1921 TAGCATCTGGCTAAGGCATCAITTTTCCACTCCATTTCTTGGTTTTGTATGTTAAAAA 1980
Db 1921 TAGCATCTGGCTAAGGCATCAITTTTCACTCCATTTCTTGGTTTTGTATGTTAAAAA 1980
QY 1981 AATAACATCTTTTCACTAGCTCCATAATTTGCAAGGAAGAGATTAGCATGAAGGTAA 2040
Db 1981 AATAACATCTTTTCACTAGCTCCATAATTTGCAAGGAAGAGATTAGCATGAAGGTAA 2040
QY 2041 TCTGAACACAGTCATGTCANCTGTAGAAAGTTGATTCTCATGCACTNCAATACATT 2100
Db 2041 TCTGAACACAGTCATGTCANCTGTAGAAAGTTGATTCTCATGCACTNCAATACATT 2100
QY 2101 CCAAGAGTCATCATGGGGATTTTTCATTTCTTAGGCTTTTCACTGTTTCTTGGAAAT 2160
Db 2101 CCAAGAGTCATCATGGGGATTTTTCATTTCTTAGGCTTTTCACTGTTTCTTGGAAAT 2160
QY 2161 TC 2162
Db 2161 TC 2162

RESULT 3

US-09-016-434-1379
; Sequence 1379, Application US/09016434
; Patent No. 6500938
; GENERAL INFORMATION:
; APPLICANT: Janice Au-Young
; APPLICANT: Jeffrey J. Seilhamer
; TITLE OF INVENTION: COMPOSITION FOR THE DETECTION OF SIGNALING
; TITLE OF INVENTION: PATHWAY GENE EXPRESSION
; NUMBER OF SEQUENCES: 1490
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: INCYTE PHARMACEUTICALS, INC.
; STREET: 3174 PORTER DRIVE
; CITY: PALO ALTO
; STATE: CALIFORNIA
; COUNTRY: USA
; ZIP: 94304
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Word Perfect 6.1 for Windows/MS-DOS 6.2
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/016,434
; FILING DATE: HEREWITH
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: Zeller, Karen J.
; REGISTRATION NUMBER: 37,071
; REFERENCE/DOCKET NUMBER: PA-0002 US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (650) 855-0555
; TELEFAX: (650) 845-4166
; INFORMATION FOR SEQ ID NO: 1379:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2162 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single

; TOPOLOGY: linear
; IMMEDIATE SOURCE:
; LIBRARY: GENBANK
; CLONE: 9452072
US-09-016-434-1379
Query Match
Best Local Similarity 99.8%; Score 2158.4; DB 3; Length 2162;
Matches 2161; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 1 GGAATTCGGCTATAGGAGAGGAATGTTCAGATGCTCAGCTCGGTCCCTCCGCTGA 60
Db 1 GGAATTCGGCTATAGGAGAGGAATGTTCAGATGCTCAGCTCGGTCCCTCCGCTGA 60
QY 61 CGCTCTCTCTCTCTCAGCCAGGACTGTTTCTGTAAGAAACAGCAGGAGCTGTGCAGC 120
Db 61 CGCTCTCTCTCTCTCAGCCAGGACTGTTTCTGTAAGAAACAGCAGGAGCTGTGCAGC 120
QY 121 GGCAGAAAGAGCGGCTGAGCGCTTGGAAACCCGAAAGTCTCGGTGCTTCTGGTACCT 180
Db 121 GGCAGAAAGAGCGGCTGAGCGCTTGGAAACCCGAAAGTCTCGGTGCTTCTGGTACCT 180
QY 181 CGCAGCGGTGCCCGCGGCGCTCAGTACCATGGAAGAGCGCTGCCCCCAGCAACG 240
Db 181 CGCAGCGGTGCCCGCGGCGGCTCAGTACCATGGAAGAGCGCTGCCCCCAGCAACG 240
QY 241 CCAGCAATTGCACTGATGCTTGGCGTACTCAAGTTGCTCCCGAGCACCAGCCCGGTT 300
Db 241 CCAGCAATTGCACTGATGCTTGGCGTACTCAAGTTGCTCCCGAGCACCAGCCCGGTT 300
QY 301 CCTGGGTCAAATTTGTCCTCACTTAGATGGCAACTGACGACCCATCGCGTCCGAAACGCA 360
Db 301 CCTGGGTCAAATTTGTCCTCACTTAGATGGCAACTGTCGACCCATCGCGTCCGAAACGCA 360
QY 361 CCAACCTGGCGGGAGAGACAGCCTGTGCTCCGACCGGAGTCCCTCCATGATCACGG 420
Db 361 CCAACCTGGCGGGAGAGACAGCCTGTGCTCCGACCGGAGTCCCTCCATGATCACGG 420
QY 421 CCATCAGATCATGCGCCCTCTACTCCATCGTGGGTGGGGGCTTTTCGAAACTTCC 480
Db 421 CCATCAGATCATGCGCCCTCTACTCCATCGTGGGTGGGGGCTTTTCGAAACTTCC 480
QY 481 TGGTCAATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 540
Db 481 TGGTCAATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 540
QY 541 TCAACCTTGTCTGGCAGATGCTTAGCCACAGTACCTCGCCCTTCCAGAGTGAATT 600
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QY 781 ATGCTGTGAACTGGATCTCTCTTCCAGCCATTTGGTCTTCTGTAAATGTTTCATGCTACAA 840
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Db 961 TTACCGTGTCTATGGACTGATGATCTTGGCCCTCAAGAGTGTCCGCATGCTCTCTGGCT 1020
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Db 1081 TGTTTCATGCTGTCTGGACTCCCATTTCAATTTACGTATCAATTTAAAGCCTTGGTTACAA 1140
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Db 1141 TCCAGAAACTACGTTCCAGACTCTTCTTGGCACTTCTGATGCTCTAGTTTACAA 1200
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Qy 1321 AGAACCTAGAGACACCCCTCCAGCGCCCAATACAGTGGATAGAACTAAATCATCAGCTAG 1380
Db 1321 AGAACCTAGAGACACCCCTCCAGCGCCCAATACAGTGGATAGAACTAAATCATCAGCTAG 1380
Qy 1381 AAAATCTGGAAGCAGAACTCTCGTTGGCCCTAACAGGGTCTCATGCCATTCGACCTT 1440
Db 1381 AAAATCTGGAAGCAGAACTCTCGTTGGCCCTAACAGGGTCTCATGCCATTCGACCTT 1440
Qy 1441 CACCAAGCTTAGAAGCCACCATGATGTGGAAGCAGGTGCTTCAAGAAATGTGTAGAGG 1500
Db 1441 CACCAAGCTTAGAAGCCACCATGATGTGGAAGCAGGTGCTTCAAGAAATGTGTAGAGG 1500
Qy 1501 CTCTAATCTCTAGGAAGTCCCTACTTTTAGGTTCATCCACCTCTTCTCTCTGGCCA 1560
Db 1501 CTCTAATCTCTAGGAAGTCCCTACTTTTAGGTTCATCCACCTCTTCTCTCTGGCCA 1560
Qy 1561 CTCTGCTCTGACATTTAGAGGACAGCCAAAGTAAGTGGAGCATTTGGGAAGAAAGGAA 1620
Db 1561 CTCTGCTCTGACATTTAGAGGACAGCCAAAGTAAGTGGAGCATTTGGGAAGAAAGGAA 1620
Qy 1621 TATACCAACCGAGAGTCCAGTTGTGCAAGACACCCAGTGGAAACCAAAACCCATCGTG 1680
Db 1621 TATACCAACCGAGAGTCCAGTTGTGCAAGACACCCAGTGGAAACCAAAACCCATCGTG 1680
Qy 1681 GTATGTGAAATGAAGTCATATAAAGGTGACCCCTCTGCTGTGTAAGATTTTATTTCAA 1740
Db 1681 GTATGTGAAATGAAGTCATATAAAGGTGACCCCTCTGCTGTGTAAGATTTTATTTCAA 1740
Qy 1741 GCAAAATTTATGACCTCAACAAAGAAAGACCATCTTTTGTAAAGTTTCAACGTAGTAACA 1800
Db 1741 GCAAAATTTATGACCTCAACAAAGAAAGACCATCTTTTGTAAAGTTTCAACGTAGTAACA 1800
Qy 1801 CATAAAGTAAATGTCTCTGATCAAGACACCTTTGAATGAAAGGTTCGAGTCTTTTATAG 1860
Db 1801 CATAAAGTAAATGTCTCTGATCAAGACACCTTTGAATGAAAGGTTCGAGTCTTTTATAG 1860
Qy 1861 TGTTTTGCAAGGNAATGAATCCATTTCTATTTTAGACTTTTAACTTTCAACTTAAAT 1920
Db 1861 TGTTTTGCAAGGNAATGAATCCATTTCTATTTTAGACTTTTAACTTTCAACTTAAAT 1920
Qy 1921 TAGCATCTGGCTAAGGCATCAATTTTCACTCTCACTTCTGTTGTTGTTGTTGTTTAAAAA 1980
Db 1921 TAGCATCTGGCTAAGGCATCAATTTTCACTCTCACTTCTGTTGTTGTTGTTGTTTAAAAA 1980
Qy 1981 AATAACATCTCTTTTTCATCTAGCTCCATAATTTGCAAGGGAAGAGATTTAGCATGAAAGTAA 2040
Db 1981 AATAACATCTCTTTTTCATCTAGCTCCATAATTTGCAAGGGAAGAGATTTAGCATGAAAGTAA 2040

Qy 2041 TCTGAAACACAGTCATGTGTCTCANCTGTAGAAAAGTTGATTTCTCATGTCACTNCAAAATCTT 2100
Db 2041 TCTGAAACACAGTCATGTGTCTCANCTGTAGAAAAGTTGATTTCTCATGTCACTNCAAAATCTT 2100
Qy 2101 CCAAAGAGTCATCATGGGGATTTTTCATTTCTTAGGCTTTTACGTTGTTCTCTCGAAT 2160
Db 2101 CCAAAGAGTCATCATGGGGATTTTTCATTTCTTAGGCTTTTACGTTGTTCTCTCGAAT 2160
Qy 2161 TC 2162
Db 2161 TC 2162

RESULT 4
US-09-355-709C-7
; Sequence 7, Application US/09355709C
; Patent No. 6538120
; GENERAL INFORMATION:
; APPLICANT: Max-Delbruck-Centrum fur Molekulare Medizin
; TITLE OF INVENTION: Genomic Sequences of Human -opioid Receptor Gene ...
; FILE REFERENCE: 101195-15
; CURRENT APPLICATION NUMBER: US/09/355,709C
; CURRENT FILING DATE: 1999-09-27
; PRIOR APPLICATION NUMBER: DE 197 03 925.1
; PRIOR FILING DATE: 1997-02-03
; NUMBER OF SEQ ID NOS: 7
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 7
; LENGTH: 2162
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Human Genomic
; OTHER INFORMATION: Clone
; OTHER INFORMATION: cDNA encoding human opiate receptor
; NAME/KEY: unsure
; LOCATION: (2063)
; OTHER INFORMATION: n = unknown
; NAME/KEY: unsure
; LOCATION: (2091)
; OTHER INFORMATION: n = unknown
US-09-355-709C-7

Query Match 99.4%; Score 2148.8; DB 3; Length 2162;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 2152; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 9 GGCTATAGGCAGAGGAGAAATGTCTGATGCTCAGTCTGGTCCCTCCCGCTGACGCTCCTC 68
Db 9 GGCTATAGGCAGAGGAGAAATGTCTGATGCTCAGTCTGGTCCCTCCCGCTGACGCTCCTC 68
Qy 69 TCTGTCTCAGCCAGGACTGTTCTGTAAGAAACAGCAGGAGCTGTGGCAGCGGCGAAAG 128
Db 69 TCTGTCTCAGCCAGGACTGTTCTGTAAGAAACAGCAGGAGCTGTGGCAGCGGCGAAAG 128
Qy 129 GAAGCGGCTGAGGCGCTTGGAAACCCGAAAGTCTTCGTTGCTCTCTGGTACCTCGCACAGC 188
Db 129 GAAGCGGCTGAGGCGCTTGGAAACCCGAAAGTCTTCGTTGCTCTCTGGTACCTCGCACAGC 188
Qy 189 GGTGCCCGCCGCGCTCAGTACCATGGAACAGCAGCGTGCCTCCCAACGACCCAGCAAT 248
Db 189 GGTGCCCGCCGCGCTCAGTACCATGGAACAGCAGCGTGCCTCCCAACGACCCAGCAAT 248
Qy 249 TGCATGATGCTTGGGCTACTCAAGTTGCTCCCGACCCAGCCCGGGTTCTTGGGTC 308
Db 249 TGCATGATGCTTGGGCTACTCAAGTTGCTCCCGACCCAGCCCGGGTTCTTGGGTC 308
Qy 309 AACTTGTCCCACTTAGATGGCAACTGACCGACCCATCGGTCGCGTCCGAAACCGCAACCTG 368
Db 309 AACTTGTCCCACTTAGATGGCAACTGTCGACCCATCGGTCGCGTCCGAAACCGCAACCTG 368
Qy 369 GCGCGGAGAGACAGCTGTGCCCTCCGACCGGAGTCCCTTCATGATCAGCGGCATCAGC 428
Db 369 GCGCGGAGAGACAGCTGTGCCCTCCGACCGGAGTCCCTTCATGATCAGCGGCATCAGC 428

1801 CATAAAGTAAATGCTACCTCTGATCAAGACCTTGAATGAAGAGTCCGAGTCTTTTAG 1860
1801 CATAAAGTAAATGCTACCTCTGATCAAGACCTTGAATGAAGAGTCCGAGTCTTTTAG 1860
1861 TGTTTTGCAAGGGAATGAATCAATTAATCTATTTTAGACTTTTAACTTTCAACTTAAAT 1920
1861 TGTTTTGCAAGGGAATGAATCAATTAATCTATTTTAGACTTTTAACTTTCAACTTAAAT 1920
1921 TAGCATCTGGCTAAGGCATCATTTTCCACTTCCATTTCTTTGGTTTGTATTTGTTTAAAAA 1980
1921 TAGCATCTGGCTAAGGCATCATTTTCCACTTCCATTTCTTTGGTTTGTATTTGTTTAAAAA 1980
1981 AATAACATCTCTTTTCACTAGCTCCATAATGCAAGGGAAGAGATTAGCATGAAGGTAA 2040
1981 AATAACATCTCTTTTCACTAGCTCCATAATGCAAGGGAAGAGATTAGCATGAAGGTAA 2040
2041 TCTGAACACAGTCATGTGTCACTGTAGAAAGTTTGAATCTCATGCACCTNCAATACCTT 2100
2041 TCTGAACACAGTCATGTGTCACTGTAGAAAGTTTGAATCTCATGCACCT-CAATACCTT 2098
2101 CCAAGAGTCATCATGGGGATTTTCACTTTTAGGCTTTTCACTGTTTCTCTGGAAT 2160
2099 CCAAGAGTCATCATGGGGATTTTCACTTTTAGGCTTTTCACTGTTTCTCTGGAAT 2158
2161 TC 2162
2159 TC 2160

RESULT 6
US-08-889-108-7
; Sequence 7, Application US/08889108
; Patent No. 6103492
; GENERAL INFORMATION:
; APPLICANT: Yu, Lei
; TITLE OF INVENTION: Mu Opioid Receptors: Compositions and Methods
; NUMBER OF SEQUENCES: 17
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Arnold, White & Durkee
; STREET: P. O. Box 4433
; CITY: Houston
; STATE: TX
; COUNTRY: USA
; ZIP: 77210-4433
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; FILING DATE: US/08/889,108
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/305,518
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Wilson, Mark B.
; REGISTRATION NUMBER: 37,259
; REFERENCE/DOCKET NUMBER: INDA005/WIM
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 512-418-3000
; TELEFAX: 512-474-7577
; INFORMATION FOR SEQ ID NO: 7:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1610 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cdna
US-08-889-108-7

Query Match 71.8%; Score 1551.4; DB 3; Length 1610;
Best Local Similarity 99.6%; Pred. No. 0;
Matches 1566; Conservative 0; Mismatches 6; Indels 1; Gaps 1;
QY 9 GGCTATAGGACAGAGAGAAATGTCAATGCTCAGTCTGGTCCCTCCTCGCTCAGCGTCTCTC 68
Db 36 GGCTATAGGACAGAGAGAAATGTCAATGCTCAGTCTGGTCCCTCCTCGCTCAGCGTCTCTC 95
QY 69 TCTGTCTCAGCCAGAGACTGGTTTCTTAAGAAACAGCAGGAGCTGTGGCAGCGGCGAAAG 128
Db 96 TCTGTCTCAGCCAGAGACTGGTTTCTTAAGAAACAGCAGGAGCTGTGGCAGCGGCGAAAG 155
QY 129 GAAGCGGTGAGCGCTTGGAAACCCGAAAGTCTCGGTCTCTCGCTCCTCGCTCAGCAGC 188
Db 156 GAAGCGGTGAGCGCTTGGAAACCCGAAAGTCTCGGTCTCTCGCTCCTCGCTCAGCAGC 215
QY 189 GGTGCCCGCCGCGCTCAGTACCATGGAACAGAGCGGTGCCCCCAGCAAGACGCGCAAT 248
Db 216 -GTGCCCGCCGCGCTCAGTACCATGGAACAGAGCGGTGCCCCCAGCAAGACGCGCAAT 274
QY 249 TGCACGTGATGCTTGGCGTACTCAAGTTGCTCCCGACGACCCAGCCCGGTTCTCGGTC 308
Db 275 TGCACGTGATGCTTGGCGTACTCAAGTTGCTCCCGACGACCCAGCCCGGTTCTCGGTC 334
QY 309 AACTTTGTCCACTTAGATGGCAACCTGACCGACCCATGCGGTCCGAAACGCGCAACCTG 368
Db 335 AACTTTGTCCACTTAGATGGCAACCTGCTCCGACCCATGCGGTCCGAAACGCGCAACCTG 394
QY 369 GCGGGAGAGACAGCGTGTGCTCCGACCGGAGTCCCTCATGATGATCAAGCGCATCAG 428
Db 395 GCGGGAGAGACAGCGTGTGCTCCGACCGGAGTCCCTCATGATGATCAAGCGCATCAG 454
QY 429 ATCATGGCCCTCTACTCCATCGTGTGGGTGGGCTCTTCGAAACCTTCTCGGTCTG 488
Db 455 ATCATGGCCCTCTACTCCATCGTGTGGGTGGGCTCTTCGAAACCTTCTCGGTCTG 514
QY 489 TATGTGATTGTGATGATACACCAAGATGAAGATGCGACCAACATCTACATTTTCAACCTT 548
Db 515 TATGTGATTGTGATGATACACCAAGATGAAGATGCGACCAACATCTACATTTTCAACCTT 574
QY 549 GCTCTGGCAGATGCTTACCAACAGTACCTTCCGCTTCCAGAGTGTGAATTAATTAATG 608
Db 575 GCTCTGGCAGATGCTTACCAACAGTACCTTCCGCTTCCAGAGTGTGAATTAATTAATG 634
QY 609 GGAACATGGCCATTTGGAACCATCTTTCAGAGATGATCTCCATAGATTAATTAATAC 668
Db 635 GGAACATGGCCATTTGGAACCATCTTTCAGAGATGATCTCCATAGATTAATTAATAC 694
QY 669 ATGTTTCCAGCATATTTCAACCTCTGACCATGAGTGTGATGATGATGATGATGATG 728
Db 695 ATGTTTCCAGCATATTTCAACCTCTGACCATGAGTGTGATGATGATGATGATGATG 754
QY 729 CACCTGTCAAGCGCTTAGATTTCCGTACTCCCGGAAATGCCAAATTAATTAATTAATG 788
Db 755 CACCTGTCAAGCGCTTAGATTTCCGTACTCCCGGAAATGCCAAATTAATTAATTAATG 814
QY 789 AACTGGATCCTCTCTTCAAGCATTTGCTTCTCTGTAATGTTTATGCTCAACAAATATAC 848
Db 815 AACTGGATCCTCTCTTCAAGCATTTGCTTCTCTGTAATGTTTATGCTCAACAAATATAC 874
QY 849 AGCAAGGTTCCATAGATTTGATACCTAATCTCTCATCAACCTGGTACTGGGAAAC 908
Db 875 AGCAAGGTTCCATAGATTTGATACCTAATCTCTCATCAACCTGGTACTGGGAAAC 934
QY 909 CTGCTGAAGATCTGTGTTTCTCATCTTTCGCTTCAATATGCGAGTGTCTCATTAATCGGTG 968
Db 935 CTGCTGAAGATCTGTGTTTCTCATCTTTCGCTTCAATATGCGAGTGTCTCATTAATCGGTG 994
QY 969 TGCATAGGATGATGATCTTGGCCTCAAGAGTGTCCGATGCTCTCTGCTCCAAAGAA 1028
Db 995 TGCATAGGATGATGATCTTGGCCTCAAGAGTGTCCGATGCTCTCTGCTCCAAAGAA 1054
QY 1029 AAGGACAGGAATCTTCGAAGGATCACAGGATGCTGCTGGTGGTGGTGGTGGTGGTGGT 1088

Qy 1233 CTGGATCAAACTTCAACGATGCTTCAGAGAGTTCTGTATCCAACTCTTCCAACT 1292
Db 1021 CTGGATGAAACTTCAACGATGCTTCAGAGAGTTCTGTATCCAACTCTTCCAACT 1080
Qy 1293 GAGCAACAAACTCCACTCGAATTCGTGAGAACACATAGAGACCACTCCACGGCCAAT 1352
Db 1081 GAGCAACAAACTCCACTCGAATTCGTGAGAACACATAGAGACCACTCCACGGCCAAT 1140
Qy 1353 ACAGTGATGAACTAATCATCAGCTAGAAAACTGGAAGCAGAAAACTCGGTTGCC 1412
Db 1141 ACAGTGATGAACTAATCATCAGCTAGAAAACTGGAAGCAGAAAACTCGGTTGCC 1200
Qy 1413 TAA 1415
Db 1201 TAA 1203

RESULT 9

US-09-214-904-1
; Sequence 1, Application US/09214904
; Patent No. 6632977
; GENERAL INFORMATION:
; APPLICANT: TRANSGENIC ANIMAL IN WHICH THE EXPRESSION
; TITLE OF INVENTION: OF OPIATE RECEPTORS IS MODIFIED
; NUMBER OF SEQUENCES: 6
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25 (BPO)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/214,904
; FILING DATE:
; PRIOR APPLICATION DATA: PCT/FR97/01282
; APPLICATION NUMBER: FR 96.08810
; FILING DATE: 15-JUL-1996
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2229 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 256..1449
US-09-214-904-1
Query Match 54.5%; Score 1177.4; DB 3; Length 2229;
Best Local Similarity 77.8%; Pred No. 8.7e-301;
Matches 1542; Conservative 0; Mismatches 411; Indels 28; Gaps 9;
Qy 9 GGCTATAGGCGAGAGAGATGTCAGATGCTCAGTCGGTCCCTCCGCTCAGCGTCTC 68
Db 52 GGATACAAGCAGAGAGAGATATCGGACGTCAG-ACGTTCCATTCTGCTCGCGCTCTC 110
Qy 69 TCTGTCTCAGCAGAGACTGGTTCTGTAAAGAACAGCAGGAG-CTGTGGCAGCGGAAA 127
Db 111 TCTGTCTCAGCAGAGACTGGTTCTGTAAAGAACAGCAGGAGCTGTGAGTGTGAGA 170
Qy 128 GGAAGCGGTGAGGCGCTTGGAAACCGGAAAGTCTCGGTGCTCTCGGTACTCTCCACAG 187
Db 171 GGAAGAGGCTGGGCGCTTGGAAACCGGAAAGTCTCGGTGCTCTCGGTACTCTCCACAG 230
Qy 188 CGGTGCGCGCGCGCGCTCAGTACCATGGACAGCAGCGTGCCTCCCAAGACCGCAGCAA 247
Db 231 GAGTCCGAGCAAGCATTCAGAACCATGACAGCAGCGCGCGCGCGCGCGCGCATCAGCGA 290
Qy 248 TTGCACTGATGCTTGGCGGTACTCAAGTTGCTTCCCGCAGCACCCAGCGGTTCTCGGT 307

Db 291 CTGCTCTGACCCCTTAGCTTCTGCAAGTTGGTCCCAGCA-----CTTGGCTCTGGCT 344
Qy 308 CAACTTGTCCCCTTAGATGGCAACCTGACCGACCATCGGTCCGAACCGCACCAACCT 367
Db 345 CAACTTGTCCCCTTAGATGGCAACCTGACCGACCATCGGTCCGAACCGCACCGGCT 404
Qy 368 GGGCGGAGAGACAGCTGTGCCCTCCGACCGGCACTCCCTCATCATGATCAGCGGCATCAC 427
Db 405 TGGCGGGAGCAGAGCTGTGCCCTCAGACCGGCACTCCCTTCCATGGTCAACGCCATCAC 464
Qy 428 GATCATGGCCCTTACTCCATCGTGGCGGTGGGGCTCTTCCGAAACCTTCTCGGTGTCAT 487
Db 465 CATCATGGCCCTTACTCTATCGTGGTGGGGCTCTTGGAAACCTTCTCGGTGTCAT 524
Qy 488 GTATGTGATTGTCAGATACACCAAGATGAAGACTGCCACCAACATCTACATTTCAACCT 547
Db 525 GTATGTGATTGTAAGATATACCAAAATGAAGACTGCCACCAACATCTACATTTCAACCT 584
Qy 548 TGCTCTGGCAGATGCTTACGCCACCACTAGCTACCTTCCAGAGTGTGAATTTACCTAAT 607
Db 585 TGCTCTGGCAGATGCTTACGCCACCTAGCTACCTAGCTACCTTCCAGAGTGTGAATTTACCTGAT 644
Qy 608 GGGAAATGCGCATTTGGAAACATCTTTCGAAAGATGATGATCTCCATAGATTTACTATAA 667
Db 645 GGGAAATGCGCATTTGGAAACATCTTTCGAAAGATGATGATCTCAATAGACTACTACAA 704
Qy 668 CATGTTCCAGCATATTCACCTCTGCAACATGAGTGTGATCGATACATTTGCACTG 727
Db 705 CATGTTCCAGCATATTCACCTCTGCAACATGAGTGTGATCGATACATTTGCACTG 764
Qy 728 CCACCTGTCAAGGCGCTTAGATTTCCGTAATCTCCCGAAATGCCAAATTTATCAATGTCG 787
Db 765 CCACCTGTCAAGGCGCTTAGATTTCCGTAATCTCCCGAAATGCCAAATTTATCAATGTCG 824
Qy 788 CAACTGATCTCTTTCAGCAGATGCTTCTGTAATGTTTATGCTGCTACCAAAATA 847
Db 825 CAACTGATCTCTTTCAGCAGATGCTTCTGTAATGTTTATGCTGCTACCAAAATA 884
Qy 848 CAGGCAAGTTCCATAGATTTGATTAACATTTCTCATCCAACTGGTACTGGGAAA 907
Db 885 CAGGCAAGTTCCATAGATTTGATTAACATTTCTCATCCCACTGGTACTGGGAAA 944
Qy 908 CTTCTGTAAGATCTGTGTTTTCATCTTCGCTTTCATTTATGCACTGCTCATTTACCGT 967
Db 945 CTTCTGTAAGATCTGTGTTTTCATCTTCGCTTTCATTTATGCACTGCTCATTTACCGT 1004
Qy 968 GTGCTATGGAATGATGATCTTACGACTCAAGAGTGTCCGATGCTGCTCGGCTCAAAGA 1027
Db 1005 GTGCTATGGAATGATGATCTTACGACTCAAGAGTGTCCGATGCTGCTCGGCTCAAAGA 1064
Qy 1028 AAAGGACAGGATCTTCCGAAAGATCACCAGGATGCTGCTGCTGCTGCTGCTGCTGCTCAT 1087
Db 1065 AAAGGACAGGATCTTCCGAAAGATCACCAGGATGCTGCTGCTGCTGCTGCTGCTGCTCAT 1124
Qy 1088 CGTCTGCTGCACTCCCATTTCAATTTACGCTCATTTAAAGCTTTGGTTACAAATCCAGAA 1147
Db 1125 TGCTGCTGCACTCCCATTTCAATTTACGCTCATTTAAAGCTTTGGTTACAAATCCAGAA 1184
Qy 1148 AACTTACGTTCCAGACTGTTTCTTGGCACTTCTGCAATTTGCTAGTTTACAAACAGCTG 1207
Db 1185 AACCACTTTCCAGACTGTTTCTTGGCACTTCTGCAATTTGCTAGTTTACAAACAGCTG 1244
Qy 1208 CCTCAACCCAGTCTTTTATGCAATTTGGAATGAAACTTCAAAAGCTTTGCTTACAGAGATT 1267
Db 1245 CCTCAACCCAGTCTTTTATGCAATTTGGAATGAAACTTCAAAAGCTTTGCTTACAGAGATT 1304
Qy 1268 CTGATATCCCACTCTTTCGAACTTGGAGTGAACCTTCAAAAGCTTTGCTTACAGAGATT 1327
Db 1305 CTGATATCCCACTCTTTCGAACTTGGAGTGAACCTTCAAAAGCTTTGCTTACAGAGATT 1364
Qy 1328 TAGAGACCACTCTTCCAGGCAATACAGTGGATGAGAACTAATCATCTAGCTAGAAATCT 1387

Db 1365 TAGGGAACCCCTCCACGGCTAATACAGTGGATCGAACTAACCCACGACTAGAAAATCT 1424
Qy 1388 GGAAGCAGAAACTGCTCCCTGCTCCCTTAACAGGGTCTCATGCCATCCGACCTTCACCAAG 1447
Db 1425 GGAAGCAGAAACTGCTCCCTAATGCCCTAATGGGTCCACGCCATCCAGACCCCTCGCTAAA 1484
Qy 1448 CTTAGAAGCCACCATGTATGTGAAGCAGGTTGCTTCAAGAATGTGTAGGAGGCTCTAAT 1507
Db 1485 CTTAGAGGCTGCCATCTACTTGTGAATCAGTTGTCTGTAGGGTGTGTGGAGGCTCTGGT 1544
Qy 1508 TCTCTAGGAAAGTGCCCTACTTTTAGGTCAATCCAACTCTTTCTCTGCGCCACTCTGCT 1567
Db 1545 TTCTCTGAAAGACATCTGATCTGTCATCATTTCAAAGTCAATCTCTCTGCTGCTATTCA-CG 1603
Qy 1568 CTGCACATTTAGAGGAGCAGCCAAAGTAAGTGGAGCAATTTGGAAGGAAGGAATATACCA 1627
Db 1604 CTACACGTGAGAGACACTC---AGACTGTGTCAAGCACTCAGAAGGAAGAGACTGCAGGC 1660
Qy 1628 CACCGAGGAGTCCAGTT--TGTGCAAGACACCCAGTGGAAACCAAAACCCCATCGTGGTATG 1685
Db 1661 CACTACTGAATCAGCTCATGTACAGAAACATCCAATGGACCAATATCTCTGTGGTATG 1720
Qy 1686 TGAATTTGAAGTCATCATATAAAGGTGACCCCTTCTGTCTGT- AAGATTTTATTTTCAAGCAA 1744
Db 1721 TGAATTTGTGATCAACATAGAAGGTGACCTTCCCTATGTGGAATTTTAAATTTCAAGGAA 1780
Qy 1745 ATATTTATGACCTCAACAAGAAAGAACCA----TCATTTGTTAAGTTTACCGTAGTAACA 1800
Db 1781 ATACTTATGATCTCATCAAGGGAAGAAATAGATGTCACCTTGTTTAAATTTCACTGTAGTAGT 1840
Qy 1801 CATAAAGTAATGCTACCTCTGATCAAGACACCTTGAATGGAAGGTCCGAGTCTTTTATAG 1860
Db 1841 CATAAAGGAAGAGCTACCTCTGACCTCTAGCCCAAGTCACCCCTCATTGGAAAGTTCATAG 1900
Qy 1861 TGTTTTTCGAAGGGAATGAATCCATTTATTTTAGACTTTTAACTTTCAACTTTAAAAAT 1920
Db 1901 GGAATATGTAGGGAA-----AATGTGCTTCCAAATTTAAATTTTCACTTTATGT 1951
Qy 1921 TAGCATCTGGCTAAGGCATATTTTCACTCCATTTTCACTCCATTTTCTGGTTTGTATTTTAAAAA 1980
Db 1952 TATAGTCTAGTTAAGACATCAGGGGCATCTGTCTTTCTGGTTTGTATTTGTTGAAGA 2011
Qy 1981 A 1981
Db 2012 A 2012

RESULT 10
US-09-826-509-546
; Sequence 546, Application US/09826509
; Patent No. 6806054
; GENERAL INFORMATION:
; APPLICANT: Lehmann-Bruinsma, Karin
; APPLICANT: Liaw, Chen W.
; APPLICANT: Lin, I-Lin
; TITLE OF INVENTION: No. 6806054-Endogenous, Constitutively Activated Known G
; FILE REFERENCE: AREN-207
; CURRENT APPLICATION NUMBER: US/09/826,509
; CURRENT FILING DATE: 2001-04-05
; PRIOR FILING DATE: 2000-04-07
; PRIOR FILING DATE: 1998-10-13
; NUMBER OF SEQ ID NOS: 589
; SOFTWARE: PatentIn Version 2.1
; SEQ ID NO 546
; LENGTH: 1182
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-826-509-546

Query Match 53.8%; Score 1163.6; DB 3; Length 1182;

Best Local Similarity 99.7%; Pred. No. 2.8e-297;
Matches 1166; Conservative 0; Mismatches 4; Indels 0; Gaps 0;
Qy 213 ATGGACACAGGCTGCCCCCAAGAACGCCAGCAATTCGACTGATGCTTGGCGTACTCA 272
Db 1 ATGGACACAGCGCTGCCCCCAAGAACGCCAGCAATTCGACTGATGCTTGGCGTACTCA 60
Qy 273 AGTTGCTCCCGAGCAGCCAGCCCGGTTCTTGGGTCAAATCTGTCCTCCACTTAGATGGCAAC 332
Db 61 AGTTGCTCCCGAGCAGCCAGCCCGGTTCTTGGGTCAAATCTGTCCTCCACTTAGATGGCAAC 120
Qy 333 CTGACCGACCCATGCGGTCGGAACCGCAACAACTTGGGGGGAGAGACAGCCCTGTGCCCT 392
Db 121 CTGTCGACCCCATGCGGTCGGAACCGCAACAACTTGGGGGGAGAGACAGCCCTGTGCCCT 180
Qy 393 CGGACCGGAGTCCCTCCATGATCAGGCGCATCAGATCATGGCCCTCTACTCCATCGTG 452
Db 181 CGGACCGGAGTCCCTCCATGATCAGGCGCATCAGATCATGGCCCTCTACTCCATCGTG 240
Qy 453 TCGGTGTTGGGCTCTTCGAAACTTCTGTGTCATGTATGTGATTTGTAGATACACCAAG 512
Db 241 TCGGTGTTGGGCTCTTCGAAACTTCTGTGTCATGTATGTGATTTGTAGATACACCAAG 300
Qy 513 ATGAAGACTGCCACCAACATCTACATTTTCAACCTTGTCTGCGCAGATGCTTTAGCCAC 572
Db 301 ATGAAGACTGCCACCAACATCTACATTTTCAACCTTGTCTGCGCAGATGCTTTAGCCAC 360
Qy 573 AGTACCTGCCCTTCAGAGTGTGAATTAATTAATTAATTAATTAATTAATTAATTAATTAAT 632
Db 361 AGTACCTGCCCTTCAGAGTGTGAATTAATTAATTAATTAATTAATTAATTAATTAATTAAT 420
Qy 633 CTTTTCGAAGATAGTATCTCCATAGATTAATTAATTAATTAATTAATTAATTAATTAATTAAT 692
Db 421 CTTTTCGAAGATAGTATCTCCATAGATTAATTAATTAATTAATTAATTAATTAATTAATTAAT 480
Qy 693 TGCACCATGAGTGTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 752
Db 481 TGCACCATGAGTGTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 540
Qy 753 CGTACTCCCGAAATGCGAAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAAT 812
Db 541 CGTACTCCCGAAATGCGAAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAAT 600
Qy 813 GGTCTTCTGTAATGTTGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 872
Db 601 GGTCTTCTGTAATGTTGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 660
Qy 873 CTAACATTTCTCATCCAACTGGTACTGGGAAAAACCTCGTGAAGATCTGTGTTTTCATC 932
Db 661 CTAACATTTCTCATCCAACTGGTACTGGGAAAAACCTCGTGAAGATCTGTGTTTTCATC 720
Qy 933 TTGCGCTTCATTAATGCGAGTGTCTCATTAATTAATTAATTAATTAATTAATTAATTAATTAAT 992
Db 721 TTGCGCTTCATTAATGCGAGTGTCTCATTAATTAATTAATTAATTAATTAATTAATTAATTAAT 780
Qy 993 CTCAGAGTGTCCGATGCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1052
Db 781 CTCAGAGTGTCCGATGCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 840
Qy 1053 ACCAGGATGGTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1112
Db 841 AAGAGGATGGTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 900
Qy 1113 TACGTCATCATTAAGAGCTTGGTTACAATCCAGAAAACTACAGTTCAGAGCTGTTTCTTGG 1172
Db 901 TACGTCATCATTAAGAGCTTGGTTACAATCCAGAAAACTACAGTTCAGAGCTGTTTCTTGG 960
Qy 1173 CACTTCTGATGCTCTAGTTTACAAACAGCTGCTCAACCCAGTCTCTTATGATGATTT 1232
Db 961 CACTTCTGATGCTCTAGTTTACAAACAGCTGCTCAACCCAGTCTCTTATGATGATTT 1020
Qy 1233 CTGGATGAAAACTTCAACGATGCTTTCAGAGAGTTCTGTATCCCAACCTTCTTCCAACTT 1292

Db	1021	CTGGATGAAGAACTTCAACGATGCTTTCAGAGAGTTCTGTATCCCAACCTCTTCCAAACATT	1080
Qy	1293	GAGCAACAAATCCCACTCGAATTCGTTCAGAACACTAGAGACCAACCCCTCCACGGCCAAAT	1352
Db	1081		1140
Qy	1353	ACAGTGGATAGAACTAATCATCAGCTAGAA	1382
Db	1141	ACAGTGGATAGAACTAATCATCAGCTAGTA	1170
RESULT 11			
US-08-387-707-15			
; Sequence 15, Application US/08387707			
; Patent No. 6265563			
; GENERAL INFORMATION:			
; APPLICANT: EVANS, CHRISTOPHER J.			
; APPLICANT: KEITH, DUANE E.			
; TITLE OF INVENTION: OPIOID RECEPTOR GENES			
; NUMBER OF SEQUENCES: 18			
; CORRESPONDENCE ADDRESS:			
; ADDRESSEE: MORRISON & FOERSTER			
; STREET: 2000 Pennsylvania Avenue, N.W. Suite 5500			
; CITY: Washington			
; STATE: DC			
; COUNTRY: USA			
; ZIP: 20006-1888			
; COMPUTER READABLE FORM:			
; MEDIUM TYPE: Floppy disk			
; COMPUTER: IBM PC compatible			
; OPERATING SYSTEM: PC-DOS/MS-DOS			
; SOFTWARE: Patent In Release #1.0, Version #1.30			
; CURRENT APPLICATION DATA:			
; APPLICATION NUMBER: US/08/387,707			
; FILING DATE: 10-SEP-1995			
; CLASSIFICATION: 536			
; ATTORNEY/AGENT INFORMATION:			
; NAME: MURASHIGE, KATE H.			
; REGISTRATION NUMBER: 29,959			
; REFERENCE/DOCKET NUMBER: 22000-20526.20			
; TELECOMMUNICATION INFORMATION:			
; TELEPHONE: (202) 887-1500			
; TELEFAX: (202) 887-0763			
; INFORMATION FOR SEQ ID NO: 15:			
; SEQUENCE CHARACTERISTICS:			
; LENGTH: 1981 base pairs			
; TYPE: nucleic acid			
; STRANDEDNESS: single			
; TOPOLOGY: linear			
US-08-387-707-15			
Query Match 53.1%; Score 1147; DB 3; Length 1981;			
Best Local Similarity 77.5%; Pred. No. 8.9e-293;			
Matches 1511; Conservative 0; Mismatches 411; Indels 28; Gaps 9;			
Qy	9	GGCTATAGGCAGAGGAGATGTCAGATGCTCAGCTCGCTCCCTCGCTCGCTCAGCGCTCTC	68
Db	52	GGATACAGCAGAGGAGAAATATCGGACGCTCAG-ACGTTCCATTTCTGCTCGCGCTCTTC	110
Qy	69	TCTGTCTCAGCCAGGACTGTTTTCTGTAAAGAAACAGCAGGAG-CTGTGGCAGCGCGGAAA	127
Db	111	TCTGGTTCCACTAGGCGTTCTCTGTGTAAAGAACTGACGAGCGCTAGGCGAGCTGTGAGA	170
Qy	128	GGAAGCGGCTGAGGCGCTTGGAAACCGGAAAGTCTCGGTGCTCTCGGTCTACCTCGCACAG	187
Db	171	GGAAGAGGCTGGGGCGCTTGGAAACCGGAAACACTCTTTGAGTGTCTCAGTTACAGNCTACC	230
Qy	188	CGGTGCCCGCGCGCTCAGTACCATGGACGAGCGCTGCCCGCCACGAGCGCCAGCA	247
Db	231	GAGTCCCGCAGGAAGCAATTCAGAAACCAATGACAGCGCGCGCCGAGGGAACATCAGGA	290
Qy	248	TTGCACATGATGCTTGGCGTACTCAAGTTGCTCTCCCGCAGCACCGCCCGGTTCTCGGCT	307

1388 GGAAGCAGAACTGCTCCGTTGCTGCTTAACAGGGTCTCATGCGCATCCGACCTTCACCAG 1447
1425 GGAAGCAGAACTGCTCCATTTGCTTAACTGGGTCACCGCCATCCAGACCTTCGCTAAA 1484
1448 CTTAGAAGCAGCAGCATGATGTGAAGCAGGTTGCTTCAAGAAATGTGTAGGAGGCTCTAAT 1507
1485 CTTAGAAGGTCAGCATCTACTTGGATCAGGTTGCTGTGAGGTTGTGGAGGCTCTGT 1544
1508 TCTTAGGAAGTGCTACTTTTAGGTCATCAACCTCTTTCTCTCTGCGCCACTCTGT 1567
1545 TTCTCTGAAAGCATCTGATCTCTGTCATCTCAAGTCTATCTCTCTGCTATTC-ACG 1603
1568 CTGCACATTTAGAGGAGCAGCAAAAGTAAGTGAGGACATTTGGAAGAAAGGATATACCA 1627
1604 CTACAGCTCAGAGACA---CTCAGACTGTGTCAAGCACTCAGAAGGAAGAGACTGAGGC 1660
1628 CACGAGGAGTCAGT---TGTCGAAGACACCCAGTGGAAACCAAAACCCCATCGTGTATG 1685
1661 CACTACTGAATCCAGCTCATGTACAGAAACATCCAATGGACCAATATCTCTGTGGTATG 1720
1686 TGAATTTGAAGTCATATAAAGGTGACCCCTCTGTCTGT-TAAGATTTTATTTTCAAGCAA 1744
1721 TGAATTTGTATCAACATAGAGGTGACCCCTTCCCTATGTGGAAATTTTAAATTTCAAGGAA 1780
1745 ATATTTATGACCTCAACAAGAAAGACCA-----TCTTTTGTAAAGTTCAACCTAGTAACA 1800
1781 ATACTTTATGATCTCATCAAGGGAATAATAGATGTCACTTTGTTAAATTTCACTGTAGTATG 1840
1801 CATAAAGTAAATGCTACCTCTGATCAAGCACCTTGAATGGAAGGTCGAGTCTTTTAG 1860
1841 CATAAAGAAAGCTACCTCTGACCTCTAGCCAGTCAACCTCTATGGAAGTTCCATAG 1900
1861 TGTTTTTGAAGGGAATGAATCCATTTATTTTAGACTTTTAACTTTAACTTTAAAT 1920
1901 GGAATATGTGAGGAA-----AATGTGCTTCCAAATAAATTTTCACTTTATGT 1951
1921 TAGCATCTGGCTAAGGCATCAATTTTCACT 1950
1952 TATAGTCTAGTTAAGACATCAGGGGCATCT 1981

RESULT 12

US-08-405-271A-15
Sequence 15, Application US/08405271A
Patent No. 6432652
GENERAL INFORMATION:
APPLICANT: EVANS, CHRISTOPHER J.
APPLICANT: KEITH, DUANE E.
TITLE OF INVENTION: OPIOID RECEPTOR GENES
NUMBER OF SEQUENCES: 25
CORRESPONDENCE ADDRESS:
ADDRESSEE: MORRISON & FOERSTER
STREET: 2000 PENNSYLVANIA AVENUE, NW, Suite 5500
CITY: WASHINGTON
STATE: DC
COUNTRY: USA
ZIP: 20006-1888
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/405,271A
FILING DATE: 14-MAR-1995
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: MURASHIGE, KATE H.
REGISTRATION NUMBER: 29,959
REFERENCE/DOCKET NUMBER: 22000-20526.22
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 887-1500

TELEFAX: (202) 887-0763
TELEX: 90-4030 MBSNFOERSWSH
INFORMATION FOR SEQ ID NO: 15:
SEQUENCE CHARACTERISTICS:
LENGTH: 1981 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
US-08-405-271A-15

Query Match 53.1%; Score 1147; DB 3; Length 1981;
Best Local Similarity 77.5%; Pred. No. 8.9e-293;
Matches 1511; Conservative 0; Mismatches 411; Indels 28; Gaps 9;

QY 9 GCCTATAGCAGAGAGAAATGTCAGATGCTCAGCTCGGTCCCTCGCTGAGCGCTCC 68
DB 52 GGATACAAAGCAGAGAGAAATATCGGACGCTCAG-ACGTTCCATTCCTGCTCGCGCTCTTC 110
QY 69 TCTGTCTCAGCCAGGACTGGTTTCTGTAAAGAAACAGCAGGAG-CTGTGGCAGCGGCGAAA 127
DB 111 TCTGTTTCACTAGGGCTTGTCTTGTAAAGAACTGACGGAGCCTAGGCGAGCTGTGAGA 170
QY 128 GGAACGGCTGAGGCGCTTGGAAACCGGAAAGTCTCGGTCTCTCGGTACCTTCGACAG 187
DB 171 GGAAGAGGCTGGGGCGCTGGAAACCGGAACACTCTTGTAGTGTCTCTCAGTTACAGNCTACC 230
QY 188 CGGTCCCGCCCGCGCTCAGTACCATGGACAGAGCGCTGCCCGCCACGACCGCAGCAA 247
DB 231 GAGTCCGAGGAAGCATTTAGAACCATGGACAGAGCGCGCCCGCAGGAAACATCAGCGA 290
QY 248 TTGCACTGATGCTTTGGGCTACTCAAGTTGCTCCCGACGACCGAGCCCGGTTCTTGGGT 307
DB 291 CTGCTCTGACCCCTTAGCTCTCTGGAAGTTGCTCCCGAGA-----CCTGGCTCTGGCT 344
QY 308 CAACTTGTCCCACTTAGATGGCAACTGACCGAACCCATCGGTTCGAAACCGCACCAACT 367
DB 345 CAACTTGTCCCACTTAGATGGAAACAGTCCGACCCATCGGTCTCTTAACCCGACGGGCT 404
QY 368 GGGCGGAGAGACAGCTGTGCCCTCCGACCGGAGTCCCTCCATGATCAGCGCCATCAC 427
DB 405 TGGCGGGAACAGACAGCTGTGCCCTCAGACCGGAGCCCTTCCATGCTCAGAGCCATCAC 464
QY 428 GATCATGGCCCTCTACTCCATCGTGTGGTGGGGCTCTTTGGAAAACTTCTTGTCAT 487
DB 465 CATCATGGCCCTCTATTCTATCGTGTGTAGTGGGCTCTTTGGAAACTTCTGTCGTAT 524
QY 488 GTATGTGATTGTGAGATACACCAAGATGAAGACTGCGCACCAACATCTACATTTCAACT 547
DB 525 GTATGTGATTGTGAAGATATACCAAAATGAAGACTGCGCACCAACATCTACATTTCAACT 584
QY 548 TGCTCTGGCAGATGCTTAGCCACAGTACCTCGCCCTTCCAGAGTGTGAAATTTACCTAAT 607
DB 585 TGCTCTGGCAGATGCTTAGCCACAGTACGCTGCGCTTTCAGAGTGTGAAATTTACCTGAT 644
QY 608 GGGAAACATGGCCATTTGGAACCATCTTTTGAAGATAGTGTGATCTCCATAGATTTACTATAA 667
DB 645 GGGAAAGTGGCCCTTTGGAAACATCTCTGTGCAAGATCGTGTACTCAATAGACTACTACAA 704
QY 668 CATGTTACACGATATTACCCCTCTGCAACATAGTGTGTGATATGATATGATGAGTCTG 727
DB 705 CATGTTACACGATATTCTTCAACCTCTGCAACATAGTGTGATGAGTGTGATGAGTGTG 764
QY 728 CCACCTGTCAAGGCTTAGTATCCGTACTCCCGGAAATGCCAAATTTATCAATGCTCTG 787
DB 765 CCACCGGTCGAAGGCTTGGATTTTCGTATCCCCCGGAAATGCCAAATTTGTCAATGCTCTG 824
QY 788 CAACTGGATCTCTCTTCAAGCCATTTGCTCTGTGTAATGTTTCATGGCTCAACAAAAATA 847
DB 825 CAACTGGATCTCTCTTCTGCAATGTTGTGCGCGTAAATGTTTCATGGCAACCAAAAAATA 884
QY 848 CAGGCAAGGTTCCATAGATTTGACTAATCTCTCTCATCCAACTGGTACTGGGAAAAA 907
DB 885 CAGGCAAGGTTCCATAGATTTGCAACCTCTCCTCATCCACATGCTACTGGGAGAA 944

Db 302 ATGTGATTGAAGATACCAAAATGAAGACTGCCACCAACATCTACATTTTCAACCTTG 361
QY 550 CTCTGCGAGATGCTTAGCCACCAAGTACCTGCGCTTCCAGAGTGTGAATTAACCTAATGG 609
Db 362 CTCTGCGAGATGCTTAGCCACCAAGTACCTGCGCTTCCAGAGTGTGAATTAACCTAATGG 421
QY 610 GAACATGCGCATTTGAAACCATCTTTGCAAGTGTGATCTCCATAGATTAACATAACA 669
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QY 670 TGTTCACAGCATATTTACCCCTCTGCACCATGAGTGTGTGATCGATATGCGAGTCTGCC 729
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QY 730 ACCCTGCAAGGCTTTAGATTTCCGTTATCCGTTATCCCGAAATGCCAAAATTAATCAATGTGCA 789
Db 542 ACCAGTCAAAAGCCCTGGATTTCCGTTACCCCGCCGAAATGCCAAAATCGTCAACGCTGCA 601
QY 790 ACTGGATCTCTCTTCAGCCATTTGCTTCTCTGTATGTTTCATGCTGCTACCAAAATACA 849
Db 602 ACTGGATCTCTCTTCAGCCATTTGCTTCTCTGTATGTTTCATGCTGCTACCAAAATACA 661
QY 850 GGCAAGGTTCCATAGATTTGACACTAAATTTCTCTCATCCAACTGGTACTGGGAAACC 909
Db 662 GGCAAGGTTCCATAGATTTGACACTAAATTTCTCTCATCCCAACCTGGTACTGGGAAACC 721
QY 910 TCGTGAAGATCTGTGTTTCACTTCGCTTCATTAAGCCAGTGTGTCATCATTTACCGTGT 969
Db 722 TGCTCAAAATCTGTGCTTTATCTTGGCTTTCATCATGCGGCTCTCATCATCACTGTGT 781
QY 970 GCTATGGAATGATGTTTGGCTTCAAGAGTGTCCGATGCTCTCTGCTCCAAAGAA 1029
Db 782 GTTACGGCTGATGATCTTACGACTCAAGAGGTTCCGATGCTATCGGCTCCAAAGAA 841
QY 1030 AGGACAGGAATCTTCAAGAGTACCAGGATGCTGCTGTTGGTGGTGTGTTTCATCG 1089
Db 842 AGGACAGGAATCTTCAAGAGTACCAGGATGCTGCTGTTGGTGGTGTGTTTCATCG 901
QY 1090 TCTGCTGGATCCCATTCATTTACGTATCAATTAAGCTTTGTTTAAATCCCAAGAA 1149
Db 902 TCTGCTGGATCCCATTCATTTACGTATCAATTAAGCTTTGTTTAAATCCCAAGAA 961
QY 1150 CTAGGTTCCAGATGTTTCTTGACATCTTGCATCTGCTTAGTTTACAAACAGCTGCC 1209
Db 962 CCACATTTCCAGACCGTTTCTGACATCTTGCATCTGCTTAGTTTACAAACAGCTGCC 1021
QY 1210 TCAACCCAGTCTTTATGATTTCTGGATGAAACTTCAAAAGATGCTTTCCAGAGTCTCT 1269
Db 1022 TGATCCAGTCTTTTACGCTTCTGATGAAACTTCAAGATGCTTTCCAGAGTCTCT 1081
QY 1270 GTATCCCAACCTCTTCCAACTTAGCAACAAACTCCACTCGAATTCGTGCAACACTA 1329
Db 1082 GCATCCCAACCTCTTCCAACTTAGCAACAAACTCCACTCGAATTCGTGCAACACTA 1141
QY 1330 GAGACCAACCTCTTCCAGGCAATACAGTGTGATGAACTTAATCATGCTAGAAATCTGG 1389
Db 1142 GGGAAACATCCCTCCAGGCTTAATACAGTGTGATGAACTTAACCAACAGCTAGAAATCTGG 1201
QY 1390 AAGCAGAACTGCTCCGTTGCTTCAAGGCTTCAAGCTTCCAGCTTCCAGCTTCAAGCT 1449
Db 1202 AGGCAAAATGCTCTCAATGCTTCAAGCTTCAAGCTTCCAGCTTCCAGCTTCAAGCT 1261
QY 1450 TAGAAGCCCACTGTATGGAAGCAGGTTGCTTCAAGAAATGTGTAGGAGGCTCTAATTC 1509
Db 1262 TAGAGCCGCACTCTAGCTGAATCAGGTTGCTGTCAGGCTGTGTGGAGGCTCTGGTT 1321
QY 1510 TTAGGAAGATGCTCTATTTTAGGTCAATCAACCTCTTCTCTCTGCGGCACTCTGCTCT 1569
Db 1322 CTTGAGAAA---CCATCTGATCTGCAITTCAAAGTCAITTCCTCTGCTGCTTCACTCT 1378
QY 1570 GCACATTTAGAGGAGCAGCAAAAGTAAGTGGAGCATTTTGGAGGAAGGAATATACCACA 1629

Db 1379 GCACATGAGAGAT---GCTCAGACTGTATCAAGTACTCAGAAAGAGAGACTACCGACA 1435
QY 1630 CCGAGAGTCCAGATTTGTGCAAGACACCCAGTGA---ACCAAAACCCATCG 1678
Db 1436 CTCTGGAATCCAGCTCATGTACAGAACCATCTGAAACACCCAGTGAGACCAATGCTCTG 1495
QY 1679 TGGTATGTGAATTTGAAGTCATCATAAAAGGTGACCTTCTGTCTGTAAAGATTTT---ATTT 1736
Db 1496 TGGTATGTGAATTTGATCATCATAGAAGGTGACCCCTCTCTATGTAGAAATTTTATTTT 1555
QY 1737 TCAACAAATATTTATGACCTCAACAAAGAAGA-ACCATCTTTTGTAAAGTTACCGTAG 1795
Db 1556 TCAAGCAAAATACTTTATGACCTCATCAAGAAATAATGTCACTTGTAAATTTCACTGTAG 1615
QY 1796 TAAACATATAAGTAATGCTACCTCTGATCAAGCACCTTGAATGGAAGTCCGAGTCTT 1855
Db 1616 TGATACATAAAGTAATGCTACCTCTGACCTCTGACCC-----AGTCACCTTCTG 1665
QY 1856 TTTAGTGTTTTTCGAAGGAATGAATCCATTTATTTTATGACTTTTAACTTCAACTT 1915
Db 1666 TAGAGAGTTCAGTCTCTTTTGTGATGGAATACATCATTTCCAACTTAAACCTTCACTT 1725
QY 1916 AAAATTAGCATCTGCTAAGGCAATTTTCACTCCATTTCTGGTTTGTATGTTTAT 1975
Db 1726 GAAGTATGCTTAGTTAAGACATCAGGGGACCTCCGCTTCTGTTTGTATGTTTGT 1785
QY 1976 AAAAAATAACATCTTTTTCATCTAGCTCCATAATTTGCAAGGGAAGAGATAGCATGAA 2035
Db 1786 AAGAAGACGACATCTTCTCTTAGCTGTGTGTTGAAATGAAAGGATGAAAGCACA 1845
QY 2036 G 2036
Db 1846 G 1846

RESULT 14

US-08-889-108-1
; Sequence 1, Application US/08889108
; Patent No. 6103492
; GENERAL INFORMATION:
; APPLICANT: Yu, Lei
; TITLE OF INVENTION: Mu Opioid Receptors: Compositions and Methods
; NUMBER OF SEQUENCES: 17
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Arnold, White & Durkee
; STREET: P. O. Box 4433
; CITY: Houston
; STATE: TX
; COUNTRY: USA
; ZIP: 77210-4433
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA: US/08/889,108
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/305,518
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Wilson, Mark B.
; REGISTRATION NUMBER: 37,259
; REFERENCE/DOCKET NUMBER: INDA005\WIM
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 512-418-3000
; TELEFAX: 512-474-7577
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1618 base pairs
; TYPE: nucleic acid

; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (cDNA)
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 214..1410
US-08-889-108-1

Query Match 50.8%; Score 1099; DB 3; Length 1618;
Best Local Similarity 83.3%; Pred. No. 4e-280;
Matches 1311; Conservative 0; Mismatches 250; Indels 12; Gaps 5;

QY 9 GGCTATAGGCAGAGGAGAAATGTCAGATGCTCAGATGCTCGGTCCGCTCCGCTCCGCTGAGCTCCTC 68
DB 11 GGCTACAGCAGAGGAGAAATATCAGACGCTCAG-ACGTTCCCTTCTGCTCCGCTCCGCTCTTC 69
QY 69 TCTGTCTCAGCCAGGACTGCTTTCTGTAAGAAACAGCAGGAG-CTGTGGCAGCGGGAAA 127
DB 70 TCTGGTTCCACTAGGCTGGTCCATGTAAGAACTCAGCGAGCCTAGGGCAGCTGTGAGA 129
QY 128 GGAAGCGGCTGAGCGCTTGGAAACCCGAAAGTCTCGGTGCTCTGCTGCTACCTCGCACAG 187
DB 130 GGAAGAGGCTGGGCGGCTGGAAACCCGAAAGTCTGAGTGTCTCTCAGTTACAGCCTAC-C 188
QY 188 CGGTGCCCGCCCGCGCTCAGTACCATGGACAGCAGCGCTGCCCCACGAAACGCCAGCAA 247
DB 189 TAGTCCGACAGAGGCTTTCAGACCATGGAACAGCAGCACCAGCGGCCAGGGAACACCGAGA 248
QY 248 TTGCATCGATGCTTGGCGTACTCAAGTGTCTCCCGACGACCCAGCGCCCGGTTCTGGGT 307
DB 249 CTGCTCAGACCCCTTAGCTCAGGCAAGTGTCTCCCGACG- - - - -CTGGCTCTGGCT 302
QY 308 CAATCTGTCCACTTAGATGACCACTTGAACCGGAGCTGCGGCTCCGATGATGCGGCGCATCAC 367
DB 303 CAATCTGTCCACTTGAATGACCACTTGAACCGGAGCTGCGGCTCCGATGATGCGGCGCATCAC 362
QY 368 GGGCGGAGAGACAGCTGTGCCCTCCGACCGGAGTCCCTCCATGATGACGGCGCATCAC 427
DB 363 TGGCGGGAACAGACGCTGTGCCCTCAGACCGGAGGCTTCCATGATGATGATGATGATGATGAT 422
QY 428 GATCATGGCCCTCTACTCTATCGT 487
DB 423 CATCATGGCCCTCTACTCTATCGT 482
QY 488 GTATGTGATGTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 547
DB 483 GTATGTGATGTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 542
QY 548 TGCTCTGGCAGATGCTTAGCCACGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 607
DB 543 TGCTCTGGCAGATGCTTAGCCACGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 602
QY 608 GGGAAACATGGCCATTTGGAAACATCTTTTGAAGATGATGATGATGATGATGATGATGATGATGAT 667
DB 603 GGGAAACATGGCCATTTGGAAACATCTTTTGAAGATGATGATGATGATGATGATGATGATGATGAT 662
QY 668 CATGTTACAGCATATTTACACCTCTGACCATGAGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 727
DB 663 CATGTTACAGCATATTTACACCTCTGACCATGAGCGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 722
QY 728 CCACCTGTCAAGGCTTAGATTTCCGTTCTCCGCTCCGCTCCGCTCCGCTCCGCTCCGCTCCGCTCCG 787
DB 723 CCACCTGTCAAGGCTTAGATTTCCGTTCTCCGCTCCGCTCCGCTCCGCTCCGCTCCGCTCCGCTCCG 782
QY 788 CAATGGATCTCTCTTCCAGCATGCTTCTTCTGTAATGATGATGATGATGATGATGATGATGATGAT 847
DB 783 CAATGGATCTCTCTTCCAGCATGCTTCTTCTGTAATGATGATGATGATGATGATGATGATGATGAT 842
QY 848 CAGGCAAGGTTCCATAGATTTGATCACTAACTTCTCTCATCCAACTCTGTTGTTGTTGTTGTTGTTG 907
DB 843 CAGGCAAGGTTCCATAGATTTGATCACTAACTTCTCTCATCCAACTCTGTTGTTGTTGTTGTTGTTG 902
QY 908 CCTGTGAGATCTGTGTTTCACTTCTGCTTCTATGATGATGATGATGATGATGATGATGATGATGAT 967

DB 903 CCTGTCAAAATCTGTGTCTTTATCTTCTGCTTTTCATGTCGATCCTCATCATCTGT 962
QY 968 GTGCTATGACATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1027
DB 963 GTGTTACGGCTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1022
QY 1028 AAGAGACAGGAATCTTTCGAAGGATCAACAGGATGATGATGATGATGATGATGATGATGATGATGAT 1087
DB 1023 AAGAGACAGGAATCTGCGCAGGATCAACCGGATGATGATGATGATGATGATGATGATGATGATGAT 1082
QY 1088 CGTCTGCTGACATCTCCATTCATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1147
DB 1083 CGTCTGCTGACATCTCCATTCATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1142
QY 1148 AACTAGCTTCCAGACCTGTTTCTTGGCATCTTCTGCACTTCTGCACTTCTGCACTTCTGCACTTCT 1207
DB 1143 AACCACATTTACAGCGTTTCTTGGCATCTTCTGCACTTCTGCACTTCTGCACTTCTGCACTTCT 1202
QY 1208 CCTCAACCCAGTCTTTTATGCTTTCTTGGATGAAACTTTCAACGATGCTTTCAGAGAGTT 1267
DB 1203 CCTGATCCAGTCTTTTACGCTTCTTGGATGAAACTTTCAACGATGCTTTCAGAGAGTT 1262
QY 1268 CTGTATCCCAACCTCTTCCAAATGATGAGCAACAAACTTCCACTTCCACTTCCACTTCCACTTCC 1327
DB 1263 CTGCATCCCAACCTCTTCCAAATGATGAGCAACAAACTTCCACTTCCACTTCCACTTCCACTTCC 1322
QY 1328 TAGAGACCCCTTCCAAATGATGAGCAACAAACTTCCACTTCCACTTCCACTTCCACTTCCACTTCC 1387
DB 1323 TAGGGAACATCTCTTCCAGGCTTAAATAGTGGATGAACTTCAACGATGCTTTCAGAGAGTT 1382
QY 1388 GGAAGCAGAAATCTGCTCCGTTGCCCTTAAACAGGCTCTCATGCTTCCGACCTTTCACCAAG 1447
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RESULT 15
US-08-889-108-3
; Sequence 3, Application US/08889108
; Patent No. 6103492
; GENERAL INFORMATION:
; APPLICANT: Yu, Lei
; TITLE OF INVENTION: Mu Opioid Receptors: Compositions and Methods
; NUMBER OF SEQUENCES: 17
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Arnold, White & Durkee
; STREET: P. O. Box 4433
; CITY: Houston
; STATE: TX
; COUNTRY: USA
; ZIP: 77210-4433
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/889,108
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:

;	APPLICATION NUMBER:	08/305,518	
;	FILING DATE:		
;	ATTORNEY/AGENT INFORMATION:		
;	NAME:	Wilson, Mark B.	
;	REGISTRATION NUMBER:	37,259	
;	REFERENCE/DOCKET NUMBER:	INDA005\WIM	
;	TELECOMMUNICATION INFORMATION:		
;	TELEPHONE:	512-418-3000	
;	TELEFAX:	512-474-7577	
;	INFORMATION FOR SEQ ID NO:	3:	
;	SEQUENCE CHARACTERISTICS:		
;	LENGTH:	1618 base pairs	
;	TYPE:	nucleic acid	
;	STRANDEDNESS:	single	
;	TOPOLOGY:	linear	
;	MOLECULE TYPE:	DNA (cdna)	
;	FEATURE:		
;	NAME/KEY:	CDS	
;	LOCATION:	339..1235	
;	US-08-889-108-3		
	Query Match	50.8%;	Score 1099; DB 3; Length 1618;
	Best Local Similarity	83.3%;	Pred. No. 4e-280;
	Matches 1311; Conservative	0;	Mismatches 250; Indels 12; Gaps 5;
Qy	9	GGCTATAGGCAGAGAGAATCTCAGATGCTCAGCTCGGTGCCCTCCCTCCCGCTCAGCGTCCAC	68
Db	11	GGCTTACAAGCAGAGAGAATATCAGACGCTCAG-ACGTTCCCTTCTGCCTGCCGCTCTTC	69
Qy	69	TCTGTCTCAGCCAGGACTGGTGTTCGTGAAGAAACAGCAGGAG-CTGTGGCAGCGCGCGAAA	127
Db	70	TCTGGTTCCACTAGGGCTGGTTCATGTAAAGAACTCTGACGGAGCCCTAGGGCAGCTGTGAGA	129
Qy	128	GGAAAGCGCTGAGCGGCTTGGAACCCGAAAAAGTCTCGGTGCTCTCGGTCTACTCGCACAG	187
Db	130	GGAGAGGCTGGGCGCGTGGAAACCCGAAAAGTCTGAGTGTCTCTCAGTTACAGCCTAC-C	188
Qy	188	CGGTGCGCGCGCGCGCTCAGTACATAGGACAGCAGCGCTGCCCCACAGAAACGCGAGCAA	247
Db	189	TAGTCCGAGCAGCGGCTTTCAGCACATGGAACAGCAGCAGCACCAGCGCCAGGAAACACGACGA	248
Qy	248	TTGCACATGATGCTTGGCGTACTCAAGTTGTCTCCACAGCACCAGCCCGGCTTCTCGGT	307
Db	249	CTGCTCAGACCCCTTAGCTCAGGCAAGTTGTCTCCACAGCA-----CTTGGCTCTGGCT	302
Qy	308	CAACTGTGTCCCACTTAGATGGCAACCTGACCGACCCCATGCGGTCCGAAACGCGACCAACCT	367
Db	303	CAACTGTGCCACGTTGATGSCAACCACTGCCGATCCATGCGGTCTGAAACGCGACCGGCT	362
Qy	368	GGGCGGAGAGACAGCCTGTGCCCTTCGACCGGAGTCCCTCCCATGATCAGCGGCATCAC	427
Db	363	TGGCGGGAACGACAGCCTGTGCCCTTCAGACCGGAGCCCTTCCATGGTCACAGGCATTTAC	422
Qy	428	GATCATGGCCCTCTACTCTCATCGTGTGGTGGTGGGCTCTTCGGAACACTTCTCGGTGCTAT	487
Db	423	CATCATGGCCCTCTACTCTCATGTTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT	482
Qy	488	GTATGTGATGTTCAGATACACCAAGATGAAGACTGCCACCAACATCTACATTTTCAACCT	547
Db	483	GTATGTGATGTGAAGATACACCAAAATGAAGACTGCCACCAACATCTACATTTTCAACCT	542
Qy	548	TGCTCTGGCAGATGCTTTAGGACACGATPACCTTGGCCCTTCAGAGTGTGAATTACCTAAT	607
Db	543	TGCTCTGGCAGACGCTTTAGGACACGATPACATGCCCTTTTCAGAGTGTCAAATCCTGAT	602
Qy	608	GGGAACATGGCCATTGTGGAACCATCTTTTGAAGATAGTGATCTCCATAGATTACTATAA	667
Db	603	GGGAACATGTGCCCTTTCGGAACCATCTCTTCGAAGATCGTGATCTCAATAGATTACTACNA	662
Qy	668	CATGTTCCACGACATATTCACCTCTTCGACCATGAGTGTGATCGATACATTTGAGTCTG	727
Db	663	CATGTTCCACGACATATTCACCTCTTCGACCATGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTG	722

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Scoring table: IDENTITY NUC
Gapop 10.0 , Gapext 1.0

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Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

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10: /cgn2_6/ptodata/1/pubpna/US11_PUBCOMB.seq.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
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2	2158.4	99.8	2162	3	US-09-883-839-1
3	2158.4	99.8	2162	5	US-10-225-567A-185
4	2158.4	99.8	2162	6	US-10-305-720-1379
5	2158.4	99.8	2162	9	US-10-500-050-1
6	2156.8	99.8	2162	3	US-09-883-839-3
7	2156.8	99.8	2162	3	US-09-883-839-7
8	2156.8	99.8	2162	3	US-09-883-839-8
9	2145.4	99.2	2165	3	US-09-883-839-9
10	2108.8	97.5	2149	5	US-10-080-917-12
11	2097.8	97.0	2279	8	US-10-477-714-33
12	1351.8	62.5	1473	5	US-10-080-917-13
13	1343.6	62.1	1431	5	US-10-080-917-6
14	1198.2	55.4	1203	3	US-09-826-509-544
15	1198.2	55.4	1203	8	US-10-925-095-546
16	1197.5	55.4	1388	5	US-10-185-083-26
17	1195.6	55.3	1464	5	US-10-185-083-25
18	1177.4	54.5	2229	3	US-09-214-904-1
19	1163.6	53.8	1182	3	US-09-826-509-546
20	1163.6	53.8	1182	8	US-10-925-095-546
21	1157.6	53.5	1245	5	US-10-080-917-8
22	1155.8	53.5	1176	3	US-09-935-061-11
23	1155.8	53.5	1176	7	US-10-692-071-11

24	1147	53.1	1981	3	US-09-823-114-15	Sequence 15, Appl
25	1147	53.1	1981	6	US-10-290-748-15	Sequence 15, Appl
26	1127	52.1	1176	3	US-09-935-061-13	Sequence 13, Appl
27	1127	52.1	1176	7	US-10-692-071-13	Sequence 13, Appl
28	1124.8	52.0	1197	3	US-09-935-061-15	Sequence 15, Appl
29	1124.8	52.0	1197	7	US-10-692-071-15	Sequence 15, Appl
30	1103.6	51.0	1239	5	US-10-080-917-10	Sequence 10, Appl
31	1099	50.8	1618	3	US-09-841-720-1	Sequence 1, Appl
32	1099	50.8	1618	3	US-09-841-720-3	Sequence 3, Appl
33	1071	49.5	1610	3	US-09-761-962-16	Sequence 16, Appl
34	1071	49.5	1610	5	US-10-283-300-16	Sequence 16, Appl
35	1020.8	47.2	1614	5	US-10-185-083-16	Sequence 17, Appl
36	992.8	45.9	1569	5	US-10-185-083-17	Sequence 15, Appl
37	990.6	45.8	1440	5	US-10-185-083-15	Sequence 24, Appl
38	919.4	42.5	1695	5	US-10-185-083-24	Sequence 4, Appl
39	916.4	42.4	1542	3	US-09-761-962-4	Sequence 4, Appl
40	916.4	42.4	1542	5	US-10-283-300-4	Sequence 11, Appl
41	915	42.3	1365	3	US-09-761-962-11	Sequence 11, Appl
42	915	42.3	1365	5	US-10-283-300-11	Sequence 51, Appl
43	915	42.3	1373	5	US-10-185-083-51	Sequence 1, Appl
44	915	42.3	1423	3	US-09-761-962-1	Sequence 1, Appl
45	915	42.3	1423	5	US-10-283-300-1	Sequence 1, Appl

ALIGNMENTS

RESULT 1

US-09-883-839-5
; Sequence 5, Application US/09883839
; Publication No. US20040209250A1
; GENERAL INFORMATION:
; APPLICANT: Kreek, Mary Jeanne
; APPLICANT: LaForge, Karl Steven
; TITLE OF INVENTION: Alleles of the Human Mu Opioid Receptor,
; TITLE OF INVENTION: Diagnostic Methods Using Said Alleles, and Methods of
; TITLE OF INVENTION: Treatment Based Thereon
; FILE REFERENCE: 600-1-266N
; CURRENT APPLICATION NUMBER: US/09/883,839
; CURRENT FILING DATE: 2001-06-18
; PRIOR APPLICATION NUMBER: 60/212,225
; PRIOR FILING DATE: 2000-06-16
; NUMBER OF SEQ ID NOS: 10
; SOFTWARE: Fast-Seq for Windows Version 4.0
; SEQ ID NO 5
; LENGTH: 2162
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: 2063..2091
; OTHER INFORMATION: n = A,T,C or G
US-09-883-839-5

Query Match 99.9%; Score 2160; DB 3; Length 2162;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 2162; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy	1	GGAAATCCGGCTATAGGCACAGGAGAAATGTACAGTGTCTCAGTCCGTCCTCCGCTCGA	60
Db	1	GGAAATCCGGCTATAGGCACAGGAGAAATGTACAGTGTCTCAGTCCGTCCTCCGCTCGA	60
Qy	61	CGCTCCTCTGTCTCAGCCAGGACTGGTTCTGTAGAAACACAGCAGGCTGGGAGC	120
Db	61	CGCTCCTCTGTCTCAGCCAGGACTGGTTCTGTAGAAACACAGCAGGCTGGGAGC	120
Qy	121	GGCGAAAGGAGCGGCTGAGCGCTTGGAAACCCGAAAGTCTCGGTGCTCTCTGGCTACCT	180
Db	121	GGCGAAAGGAGCGGCTGAGCGCTTGGAAACCCGAAAGTCTCGGTGCTCTCTGGCTACCT	180
Qy	181	CGCACAGCGGTGCCCGCCCGCGTCTAGTACCATGAGCAGCGCTGCCCGCCACGAAACG	240
Db	181	CGCACAGCGGTGCCCGCCCGCGTCTAGTACCATGAGCAGCGCTGCCCGCCACGAAACG	240

QY 241 CCAGCAATTGCACTGATGCTTGGGGTACTCAAGTTGCTCCCCAGGACCCAGCCCGGTT 300
DB 241 CCAGCAATTGCACTGATGCTTGGGGTACTCAAGTTGCTCCCCAGGACCCAGCCCGGTT 300
QY 301 CCTGGGTCAACTGTCCTCCACTTAGATGGCAACCTGACCGACCCATGCGGTCCGAAACCGCA 360
DB 301 CCTGGGTCAACTGTCCTCCACTTAGATGGCAACCTGACCGACCCATGCGGTCCGAAACCGCA 360
QY 361 CCAACCTGGCGGGAGAGACAGCCTGTGCCCCCTCCGACCGGAGTCCCTCCATGATCACGG 420
DB 361 CCAACCTGGCGGGAGAGACAGCCTGTGCCCCCTCCGACCGGAGTCCCTCCATGATCACGG 420
QY 421 CCAATCAAGATCATGCGCCCTCTACTCCATCGTGTGCGTGGGGCTCTTCGGAACCTTCC 480
DB 421 CCAATCAAGATCATGCGCCCTCTACTCCATCGTGTGCGTGGGGCTCTTCGGAACCTTCC 480
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DB 481 TGGTCAATGATGTGATGTGCAGATACCAACAGATGAAGACTGCCACCAACATCTACATTT 540
QY 541 TCAACCTTCTCTGGCAGATGCTTAGCCACCAAGTACCCTGCCCCCTTCCAGAGTGTGAATT 600
DB 541 TCAACCTTCTCTGGCAGATGCTTAGCCACCAAGTACCCTGCCCCCTTCCAGAGTGTGAATT 600
QY 601 ACTAATGGGAACATGGCCATTTGGAAACCATCTCTTGGCAAGATAGTGATCTCCATAGATT 660
DB 601 ACTAATGGGAACATGGCCATTTGGAAACCATCTCTTGGCAAGATAGTGATCTCCATAGATT 660
QY 661 ACTATAACATGTTTCAACAGCATATTCACCCCTCTGACCATGAGTGTGATCGATACATTG 720
DB 661 ACTATAACATGTTTCAACAGCATATTCACCCCTCTGACCATGAGTGTGATCGATACATTG 720
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DB 721 CAGTCTGCCACCTGTCAAGGCCCTAGATTTCGGTACTCCCGAAATGCCAAATTTATCA 780
QY 781 ATGCTCGAATGGATTCCTCTTCAAGCATTTGGTCTTCCGTAATGTTTCATGGCTACAA 840
DB 781 ATGCTCGAATGGATTCCTCTTCAAGCATTTGGTCTTCCGTAATGTTTCATGGCTACAA 840
QY 841 CAAAATACAGGCAAGGTCATAGATTGTACATTAATCTCTCATCCAACTGGTACT 900
DB 841 CAAAATACAGGCAAGGTCATAGATTGTACATTAATCTCTCATCCAACTGGTACT 900
QY 901 GGGAAACCTCGTGAAGATCTGTGTTTTCATCTTCCCTTCATFATGCCAGTCTCATCA 960
DB 901 GGGAAACCTCGTGAAGATCTGTGTTTTCATCTTCCCTTCATFATGCCAGTCTCATCA 960
QY 961 TTACCGTGTCTATGGAATGATCTTGGCCCTCAAGAGTGTCCGATGCTCTGGCT 1020
DB 961 TTACCGTGTCTATGGAATGATCTTGGCCCTCAAGAGTGTCCGATGCTCTGGCT 1020
QY 1021 CCAAGAAAAGGACAGGAATCTTCGAAGGATCACCAGGATGGTGGTGGTGGCTG 1080
DB 1021 CCAAGAAAAGGACAGGAATCTTCGAAGGATCACCAGGATGGTGGTGGTGGCTG 1080
QY 1081 TGTTTCATCGTCTGCTGGACTCCCATTTACATTTACGTATCAATTAAGCCTTGGTTACAA 1140
DB 1081 TGTTTCATCGTCTGCTGGACTCCCATTTACATTTACGTATCAATTAAGCCTTGGTTACAA 1140
QY 1141 TCCAGAAACTAGTTCAGACTGTTTCTTGGCACTTCTGCAATGCTCTAGTTACAA 1200
DB 1141 TCCAGAAACTAGTTCAGACTGTTTCTTGGCACTTCTGCAATGCTCTAGTTACAA 1200
QY 1201 ACAGTGCCTCAACCCAGTCTTTATGCAATTTCTGGATGAAACTTCAACAGATGTTCA 1260
DB 1201 ACAGTGCCTCAACCCAGTCTTTATGCAATTTCTGGATGAAACTTCAACAGATGTTCA 1260
QY 1261 GAGAGTTCTGTATCCCAACCTCTTCCAACATTCAGCAACAAATCTCCACTCGAATTCGT 1320
DB 1261 GAGAGTTCTGTATCCCAACCTCTTCCAACATTCAGCAACAAATCTCCACTCGAATTCGT 1320

QY 1321 AGAACACTAGAGACCAACCCCTCCACGGCAATACAGTGGATAGAACTAATCATCAGCTAG 1380
DB 1321 AGAACACTAGAGACCAACCCCTCCACGGCAATACAGTGGATAGAACTAATCATCAGCTAG 1380
QY 1381 AAAATCTGGAAGCAGAAAACCTGCTCGTTGCCCTAAACAGGGTCTCATGCCATTTCCGACCTT 1440
DB 1381 AAAATCTGGAAGCAGAAAACCTGCTCGTTGCCCTAAACAGGGTCTCATGCCATTTCCGACCTT 1440
QY 1441 CACCAAGCTTAGAAGCCACCATGTATGTGGAAGCAGGTTCCTCAAGAAATGTGTAGAGG 1500
DB 1441 CACCAAGCTTAGAAGCCACCATGTATGTGGAAGCAGGTTCCTCAAGAAATGTGTAGAGG 1500
QY 1501 CTCTAATTTCTTAGGAAAGTGCCTACTTTTAGGTCAATCAACCTCTTTCTCTCTGSCCA 1560
DB 1501 CTCTAATTTCTTAGGAAAGTGCCTACTTTTAGGTCAATCAACCTCTTTCTCTCTGSCCA 1560
QY 1561 CTCTCTCTGCACTTAGAGGACAGCCAAAGTAAAGTGGAGCATTTTGGAAAGAAAGGAA 1620
DB 1561 CTCTCTCTGCACTTAGAGGACAGCCAAAGTAAAGTGGAGCATTTTGGAAAGAAAGGAA 1620
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DB 1621 TATACACACCGAGGAGTCCAGTTTGTGCAAGACACCCAGTGGAAACCCATCGTG 1680
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DB 1681 GTATGTGAATTGAAGTCAATATAAAGGTGACCTTCTGCTGTGAAGATTTTATTTCAA 1740
QY 1741 GCAATAATTTATGACTCAACAAAGAAACCATCTTTTGTAAAGTTCCCGTAGTAACA 1800
DB 1741 GCAATAATTTATGACTCAACAAAGAAACCATCTTTTGTAAAGTTCCCGTAGTAACA 1800
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DB 1801 CATTAAGTAATGCTTACCTCTGATCAAGACACCTTGAATGGAAAGGTCCGAGTCTTTTAG 1860
QY 1861 TGTTTTTGCAGGGAAATGAATCCATTAATTTTAGACTTTTAACTTTCAACTTAAAAAT 1920
DB 1861 TGTTTTTGCAGGGAAATGAATCCATTAATTTTAGACTTTTAACTTTCAACTTAAAAAT 1920
QY 1921 TAGCATCTGGCTTAAGGCATCATTTTCACTCCATTTCTGGTTTGTATGTTTAAAAAA 1980
DB 1921 TAGCATCTGGCTTAAGGCATCATTTTCACTCCATTTTCTGGTTTGTATGTTTAAAAAA 1980
QY 1981 AATAACATCTCTTTCATCTAGCTCCATTAATTCGAAGGAGAGATTTAGCATGAAAGTAA 2040
DB 1981 AATAACATCTCTTTCATCTAGCTCCATTAATTCGAAGGAGAGATTTAGCATGAAAGTAA 2040
QY 2041 TCTGAAACACAGTCTATGTCANCTGTAGAAAAGTTGATTTCTCATGCACTNCAAAATCTT 2100
DB 2041 TCTGAAACACAGTCTATGTCANCTGTAGAAAAGTTGATTTCTCATGCACTNCAAAATCTT 2100
QY 2101 CAAAAGAGTCATCATGGGGATTTTTCATCTTAGGCTTTTAGTGGTTTGTCTCTGGAAT 2160
DB 2101 CAAAAGAGTCATCATGGGGATTTTTCATCTTAGGCTTTTAGTGGTTTGTCTCTGGAAT 2160
QY 2161 TC 2162
DB 2161 TC 2162

RESULT 2

US-09-883-839-1
; Sequence 1, Application US/09883839
; Publication No. US20040209250A1
; GENERAL INFORMATION:
; APPLICANT: Kreek, Mary Jeanne
; APPLICANT: LaForge, Karl Steven
; TITLE OF INVENTION: Alleles of the Human Mu Opioid Receptor,
; TITLE OF INVENTION: Diagnostic Methods Using Said Alleles, and Methods of
; TITLE OF INVENTION: Treatment Based Thereon
; FILE REFERENCE: 600-1-266N
; CURRENT APPLICATION NUMBER: US/09/883,839

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; CURRENT FILING DATE: 2001-06-18
; PRIOR APPLICATION NUMBER: 60/212,225
; PRIOR FILING DATE: 2000-06-16
; NUMBER OF SEQ ID NOS: 10
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1
; LENGTH: 2162
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: 2063, 2091
; OTHER INFORMATION: n = A,T,C or G
US-09-883-839-1

Query Match      99.8%; Score 2158.4; DB 3; Length 2162;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 2161; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 GGAATTCGGCTATAGGACAGGAGAGATGTCAGATGCTCAGCTCGGTCCCTCCGCTGA 60
DB 1 GGAATTCGGCTATAGGACAGGAGAGATGTCAGATGCTCAGCTCGGTCCCTCCGCTGA 60
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DB 61 CGCTCCTCTCTGTCAGCCAGAGACTGGTTTCTGTAAAGAAACAGCAGGAGCTGTGCAGC 120
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DB 121 GGCAGAAAGGAGCGGCTGAGCGCTTGGAAACCCGAAAGTCTCGTGCTCTCTGCTACCT 180
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DB 181 CGCACAGCGTCCCGCCGCGCTGAGTACCATGACAGCGCTGCGCCCGCCAGCAAG 240
QY 241 CCAGCAATGCACTGATGCTTGGCGTACTCAAGTGTCTCCAGCACCCAGCCCGCGGTT 300
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DB 301 CCTGGGTCAACTTGTCCCACTTAGATGGCAACCTGACCGACCCATGCGGTCCGAAACGCA 360
QY 361 CCAACCTGGGCGGAGAGACGCTTGCCTCCGACGGGAGTCCCTCCATGATACGG 420
DB 361 CCAACCTGGGCGGAGAGACGCTTGCCTCCGACGGGAGTCCCTCCATGATACGG 420
QY 421 CCATCAGATCATGCGCTCTACTCCATCTGCTGCTGGTGGGCTCTTCGAAACTTCC 480
DB 421 CCATCAGATCATGCGCTCTACTCCATCTGCTGCTGGTGGGCTCTTCGAAACTTCC 480
QY 481 TGGTCACTGATGATGTCAGATACACCAAGATGAAGACTGCCACCAACTTACATTT 540
DB 481 TGGTCACTGATGATGTCAGATACACCAAGATGAAGACTGCCACCAACTTACATTT 540
QY 541 TCAACCTTGTCTGGCAGATGCTTAGCCACAGTACCTGCTCCCTCCAGAGTGTGAAT 600
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QY 661 ACTATAACATGTTTCAACAGCATATTACCCCTCTGCACCATGAGTGTGATCGATACATTG 720
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DB 721 CAGTCTGCCACCTGTCAAGGCTTAGATTTCCGTACTCCCGGAAATGCCAAATATCA 780
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QY 1381 AAAATCTGGAAGCAGAACTGCTCCGTTGCCCTTAAACAGGGTCTCATGCCATTCGACCTT 1440
DB 1381 AAAATCTGGAAGCAGAACTGCTCCGTTGCCCTTAAACAGGGTCTCATGCCATTCGACCTT 1440
QY 1441 CACCAAGCTTTAGAAGCCCATGATGTGGAAGCAGGTTGCTTCAAGAAATGTGTAGAGG 1500
DB 1441 CACCAAGCTTTAGAAGCCCATGATGTGGAAGCAGGTTGCTTCAAGAAATGTGTAGAGG 1500
QY 1501 CTCTAATTTCTTAGGAAAGTCCCTACTTTTAGTCTCATCACTTCTTCTCTCTGCGCA 1560
DB 1501 CTCTAATTTCTTAGGAAAGTCCCTACTTTTAGTCTCATCACTTCTTCTCTCTGCGCA 1560
QY 1561 CTCTGCTCTGCACATTAGAGGACAGCCAAAGTAAAGTGGAGCATTTGGGAAGGAAAGGAA 1620
DB 1561 CTCTGCTCTGCACATTAGAGGACAGCCAAAGTAAAGTGGAGCATTTGGGAAGGAAAGGAA 1620
QY 1621 TATACACACACCGAGGAGTCCAGTTTGTGCAAGACACCCAGTGGAAACCAAAACCCATCGT 1680
DB 1621 TATACACACACCGAGGAGTCCAGTTTGTGCAAGACACCCAGTGGAAACCAAAACCCATCGT 1680
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DB 1681 GTATGTAATTAAGTCAATCAAAAAGGTGACCTTCTGTCTGTAGATTTTATTTTCAA 1740
QY 1741 GCAAAATTTTATGACCTCAACAAAGAAAGAACCTTTTGTAAAGTTTCAACGTAGTAACA 1800
DB 1741 GCAAAATTTTATGACCTCAACAAAGAAAGAACCTTTTGTAAAGTTTCAACGTAGTAACA 1800
QY 1801 CATAAAGTAAATGCTACTCTCTGATCAAGCACTTGAATGGAAGTCCGAGTCTTTTATAG 1860
DB 1801 CATAAAGTAAATGCTACTCTCTGATCAAGCACTTGAATGGAAGTCCGAGTCTTTTATAG 1860
QY 1861 TGTTTTTCGAAGGGAATGAATTCATTTATTTTATAGCTTTTAACTTCAACTTAAAT 1920
DB 1861 TGTTTTTCGAAGGGAATGAATTCATTTATTTTATAGCTTTTAACTTCAACTTAAAT 1920
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QY 1921 TAGCATCTGGCTAAGGCATCATTTTCACTTCCATTTCTTGGTTTGTATTGTTTAAAAA 1980
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QY 1921 TAGCATCTGGCTAAGGCATCATTTTCACTTCCATTTCTTGGTTTGTATTGTTTAAAAA 1980
Db |||||
QY 1981 AATAACATCTCTTTTCATCTAGCTCCATAATTCGAAGGGAAGAGATTAGCATGAAGGTAA 2040
Db |||||
QY 1981 AATAACATCTCTTTTCATCTAGCTCCATAATTCGAAGGGAAGAGATTAGCATGAAGGTAA 2040
Db |||||
QY 2041 TCTGAAACACAGTCATGTGTCTGTCATCTAGCTCCATAATTCGAAGGGAAGAGATTAGCATGAAGGTAA 2100
Db |||||
QY 2041 TCTGAAACACAGTCATGTGTCTGTCATCTAGCTCCATAATTCGAAGGGAAGAGATTAGCATGAAGGTAA 2100
Db |||||
QY 2101 CCAAGAGTCATCATGGGGGATTTTTCATTTCTAGCTTTTCAAGTGGTTTCTCTGGAA 2160
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QY 2161 TC 2162
Db ||
QY 2161 TC 2162
Db ||
RESULT 3
US-10-225-567A-185
; Sequence 185, Application US/10225567A
; Publication No. US20030113798A1
; GENERAL INFORMATION:
; APPLICANT: Lifespan Biosciences
; APPLICANT: Brown, Joseph P.
; APPLICANT: Burmer, Glenna C.
; APPLICANT: Roush, Kristine L.
; TITLE OF INVENTION: ANTIGENIC PEPTIDES AND ANTIBODIES FOR G PROTEIN-COUPLED RECEPTORS
; FILE REFERENCE: 1920-4-4
; CURRENT APPLICATION NUMBER: US/10/225,567A
; CURRENT FILING DATE: 2001-12-19
; PRIOR APPLICATION NUMBER: 60/257,144
; PRIOR FILING DATE: 2000-12-19
; NUMBER OF SEQ ID NOS: 2292
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 185
; LENGTH: 2162
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (2063)..(2063)
; OTHER INFORMATION: unknown nucleotide
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (2091)..(2091)
; OTHER INFORMATION: unknown nucleotide
US-10-225-567A-185
Query Match 99.8%; Score 2158.4; DB 5; Length 2162;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 2161; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 1 GGAATTCGGCTATAGGCAGAGAGAAATGTCAAGTCTCAGCTCGGTGCCCTCCGCTGA 60
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QY 61 CGCTCTCTCTGTCTCAGCCAGACTGGTTTCTGTAAGAAACAGCAGGAGCTGTGCAGC 120
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QY 121 GCGGAAAGGAAGCGGCTGAGGCGCTTGGAAACCGGAAAGTCTCGGTGCTCCTGGCTACCT 180
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Db |||||
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QY 1261 GAGAGTCTGTATCCCAACCTCTTCCACATTTGAGCAACAAATCTCCATTCGAATTCGTC 1320
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1381 AAAATCTGGAAGCAGAAAATGCTCGGTGCTCCCTAAACAGGGTCTCATGCCATTCGACCTT 1440
1441 CACCAAGCTTAGAAGCAGCAATGATGTGGAAGCAGGTTGCTTCAAGAATGTGTAGAGG 1500
1441 CACCAAGCTTAGAAGCAGCAATGATGTGGAAGCAGGTTGCTTCAAGAATGTGTAGAGG 1500
1501 CTCTAATTTCTTAGGAAGTGCCTACTTTTAGTGTCTATCCAACTCTTTCTCTCTGCGCA 1560
1501 CTCTAATTTCTTAGGAAGTGCCTACTTTTAGTGTCTATCCAACTCTTTCTCTCTGCGCA 1560
1561 CTCTGTCTGTCACTTAGAGGAGCAGCCAAAAGTAAGTGGAGCATTTGGAAGGAAAGGAA 1620
1561 CTCTGTCTGTCACTTAGAGGAGCAGCCAAAAGTAAGTGGAGCATTTGGAAGGAAAGGAA 1620
1621 TATACACACCGAGGAGTCCAGTTTGTGCAAGACACCCAGTGGAAACCAACCCATCGTG 1680
1621 TATACACACCGAGGAGTCCAGTTTGTGCAAGACACCCAGTGGAAACCAACCCATCGTG 1680
1681 GTATGTGAATTTGAAGTCACTATAAAGGTGACCCCTTCTGTCTGTAAAGATTTTATTTC 1740
1681 GTATGTGAATTTGAAGTCACTATAAAGGTGACCCCTTCTGTCTGTAAAGATTTTATTTC 1740
1741 GCAAAATATTATGACCTCAACAAAGAGAACCAATTTTGTAAAGTTTCAACCTAGTAACA 1800
1741 GCAAAATATTATGACCTCAACAAAGAGAACCAATTTTGTAAAGTTTCAACCTAGTAACA 1800
1801 CATAAAGTAATGCTACCTCTGATCAAGCACCTTGAATGGAAGGTCGAGTCTTTTAG 1860
1801 CATAAAGTAATGCTACCTCTGATCAAGCACCTTGAATGGAAGGTCGAGTCTTTTAG 1860
1861 TGTTTTGTGAAGGGAATGAATCAATTTATTTTATTTAGACTTTTAACTTCAACTTAAAT 1920
1861 TGTTTTGTGAAGGGAATGAATCAATTTATTTTATTTAGACTTTTAACTTCAACTTAAAT 1920
1921 TAGCATCTGGCTAAGGCATCAATTTTACCTCCATTTCTGGTTTGTATTTGTTTAAAAA 1980
1921 TAGCATCTGGCTAAGGCATCAATTTTACCTCCATTTCTGGTTTGTATTTGTTTAAAAA 1980
1981 AATAACATCTTTTATCATCTAGTCCATAATTGCAAGGAGAGATTAGCATGAAGGTAA 2040
1981 AATAACATCTTTTATCATCTAGTCCATAATTGCAAGGAGAGATTAGCATGAAGGTAA 2040
2041 TCTGAACACAGATCATGTGTCTGTCANCTGTAGAAAGGTTGATTTCTCATGCACTNCAAT 2100
2041 TCTGAACACAGATCATGTGTCTGTCANCTGTAGAAAGGTTGATTTCTCATGCACTNCAAT 2100
2101 CCAAGAGTCACTATGCGGGATTTTTCATTTCTTAGGCTTTTCAAGTGTGTTCTCTGGAAT 2160
2101 CCAAGAGTCACTATGCGGGATTTTTCATTTCTTAGGCTTTTCAAGTGTGTTCTCTGGAAT 2160
2161 TC 2162
2161 TC 2162
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RESULT 4
US-10-305-720-1379
; Sequence 1379, Application US/10305720
; Publication No. US20040010136A1
; GENERAL INFORMATION:
; APPLICANT: Au-Young, Janice K.; Seilhamer, Jeffrey J.
; TITLE OF INVENTION: Composition for the Detection of Signaling Pathway Gene Expression
; FILE REFERENCE: PA-0002-1 CON
; CURRENT APPLICATION NUMBER: US/10/305,720
; CURRENT FILING DATE: 2002-11-26
; PRIOR APPLICATION NUMBER: 09/016,434
; PRIOR FILING DATE: 1998-01-30
; NUMBER OF SEQ ID NOS: 1490
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; SOFTWARE: PERL Program
; SEQ ID NO 1379
; LENGTH: 2162
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; OTHER INFORMATION: GenBank ID No. US20040010136A1 9452072
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (1) ... (2162)
; OTHER INFORMATION: a, t, c, g, or other
US-10-305-720-1379

Query Match 99.8%; Score 2158.4; DB 6; Length 2162;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 2161; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 GGAATTCGGCTATAGGCAGAGGAGAAATGTCAAGTCTCAGCTCGGTCCCTCCGCTGA 60
DB 1 GGAATTCGGCTATAGGCAGAGGAGAAATGTCAAGTCTCAGCTCGGTCCCTCCGCTGA 60
QY 61 CGCTCTCTCTCTCAGCAGGACTGGTTTCTGTAAAGAAACAGCAGGAGCTGTGCAGC 120
DB 61 CGCTCTCTCTCTCAGCAGGACTGGTTTCTGTAAAGAAACAGCAGGAGCTGTGCAGC 120
QY 121 GCGGAAAGGAAGCGGCTGAGGCGCTTGGAAACCCGAAAGTCTCGGTGCTCTCGGTACCT 180
DB 121 GCGGAAAGGAAGCGGCTGAGGCGCTTGGAAACCCGAAAGTCTCGGTGCTCTCGGTACCT 180
QY 181 CGCAGACGCGTCCCGCCGCGCTCAGTACCATGGAACAGCAGCGCTGCCCCCAGCAACG 240
DB 181 CGCAGACGCGTCCCGCCGCGCTCAGTACCATGGAACAGCAGCGCTGCCCCCAGCAACG 240
QY 241 CAGCAATTTGCACTGATGCTTGGCGTACTCAAGTTGCTCTCCGACGACCCAGCCCGGTT 300
DB 241 CAGCAATTTGCACTGATGCTTGGCGTACTCAAGTTGCTCTCCGACGACCCAGCCCGGTT 300
QY 301 CTGGGTCAACTTGTCTCCACTTAGATGGCAACTGACACCCAGCCAGTCCGAGTCCGAAACGCA 360
DB 301 CTGGGTCAACTTGTCTCCACTTAGATGGCAACTGACACCCAGTCCGAGTCCGAAACGCA 360
QY 361 CCAACCTCGGCGGAGAGACAGCTGTGCTCCGACCGGAGTCCCTCATGATCAACGG 420
DB 361 CCAACCTCGGCGGAGAGACAGCTGTGCTCCGACCGGAGTCCCTCATGATCAACGG 420
QY 421 CCATCAAGATCATGCGCCCTCTACTCCATCGTGTGCGTGGGGCTCTTCGGAACCTTC 480
DB 421 CCATCAAGATCATGCGCCCTCTACTCCATCGTGTGCGTGGGGCTCTTCGGAACCTTC 480
QY 481 TGGTCATGTATGTGATGTGTCAGATACACCAAGATGAAGTGCACCAACATCTACATTT 540
DB 481 TGGTCATGTATGTGATGTGTCAGATACACCAAGATGAAGTGCACCAACATCTACATTT 540
QY 541 TCAACCTTGTCTGCGCAGATGCCCTTAGCCACCAAGTACCCTTCCGCTTCCAGAGTGTGAAT 600
DB 541 TCAACCTTGTCTGCGCAGATGCCCTTAGCCACCAAGTACCCTTCCGCTTCCAGAGTGTGAAT 600
QY 601 ACCTAATGGGAACATGGCCATTTGGAAACCATCTTTTGCAGAGATAGTATCTCCATAGATT 660
DB 601 ACCTAATGGGAACATGGCCATTTGGAAACCATCTTTTGCAGAGATAGTATCTCCATAGATT 660
QY 661 ACTATAACATGTTTACCAGCATATTCACCTCTGACCATGAGTGTGTGATCGATACATTG 720
DB 661 ACTATAACATGTTTACCAGCATATTCACCTCTGACCATGAGTGTGTGATCGATACATTG 720
QY 721 CAGTCTGCCACCTGTCAAGCCCTTAGATTTCCGTTACTCCCGAAATGCCAAATATATCA 780
DB 721 CAGTCTGCCACCTGTCAAGCCCTTAGATTTCCGTTACTCCCGAAATGCCAAATATATCA 780
QY 781 ATGCTGCAACTGGATCCTCTCTTCAGCCATTTGGTCTTCTCTGTAATGTTTCATGGCTACAA 840
DB 781 ATGCTGCAACTGGATCCTCTCTTCAGCCATTTGGTCTTCTCTGTAATGTTTCATGGCTACAA 840
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Db 361 CCAACCTGGGCGGAGAGACGCTGTGCCCTCCGACCGGAGTCCCTCATGATCACGG 420
Qy
Db 421 CCATCAGCATATGGCCCTCTACTCCATCGTGTGGTGGGCTCTTCGGAACTTCC 480
Db 421 CCATCAGCATATGGCCCTCTACTCCATCGTGTGGTGGGCTCTTCGGAACTTCC 480
Qy 481 TGGTCATGTATGTGATGTGATGATACCAAGATGAAGACTGCCACCAACATCTACATTT 540
Db 481 TGGTCATGTATGTGATGTGATGATACCAAGATGAAGACTGCCACCAACATCTACATTT 540
Qy 541 TCAACCTTGTCTGGCAGATGCCCTTAGCCACCAAGTACCCCTCCAGAGTGTGAATT 600
Db 541 TCAACCTTGTCTGGCAGATGCCCTTAGCCACCAAGTACCCCTCCAGAGTGTGAATT 600
Qy 601 ACCTAATGGGAACATGGCCATTGGAAACCATCTTTGCAAGATAGTATCTCCATAGATT 660
Db 601 ACCTAATGGGAACATGGCCATTGGAAACCATCTTTGCAAGATAGTATCTCCATAGATT 660
Qy 661 ACTATACATGTTTCCAGCATATTTACCCCTCTGCACCATGAGTGTGATCGATACATTG 720
Db 661 ACTATACATGTTTCCAGCATATTTACCCCTCTGCACCATGAGTGTGATCGATACATTG 720
Qy 721 CAGTCTGCCACCTGTCAAGGCCCTTAGAATTTCCGTACTCCCGGAAATGCCAAATATCA 780
Db 721 CAGTCTGCCACCTGTCAAGGCCCTTAGAATTTCCGTACTCCCGGAAATGCCAAATATCA 780
Qy 781 ATGTCGCACTGGATCTCTCTTCAGCAGATGTGTCTTCCTGTAAATGTTCAATGGCTACAA 840
Db 781 ATGTCGCACTGGATCTCTCTTCAGCAGATGTGTCTTCCTGTAAATGTTCAATGGCTACAA 840
Qy 841 CAAATACAGCAGGTTCCATAGATTGTACACTAAATCTCTCATCCCAACCTGGTACT 900
Db 841 CAAATACAGCAGGTTCCATAGATTGTACACTAAATCTCTCATCCCAACCTGGTACT 900
Qy 901 GGGAAACCTCGTGAAGATCTGTGTTTCACTTCGCTTCATTAATGCCAGTGTCTATCA 960
Db 901 GGGAAACCTCGTGAAGATCTGTGTTTCACTTCGCTTCATTAATGCCAGTGTCTATCA 960
Qy 961 TTACCGTGTCTATGGACTGATGATCTTGGCCCTCAAGAGTGTCCGATGCTCTCGCT 1020
Db 961 TTACCGTGTCTATGGACTGATGATCTTGGCCCTCAAGAGTGTCCGATGCTCTCGCT 1020
Qy 1021 CCAAGAAAGGACAGGAATCTTGAAGGATCACAGATGGTGTCTGGTGGTGGCTG 1080
Db 1021 CCAAGAAAGGACAGGAATCTTGAAGGATCACAGATGGTGTCTGGTGGTGGCTG 1080
Qy 1081 TGTTCATGCTGTGTGACTCCCATTCACATTTACGTATCATTAAGAGCTTGGTTACAA 1140
Db 1081 TGTTCATGCTGTGTGACTCCCATTCACATTTACGTATCATTAAGAGCTTGGTTACAA 1140
Qy 1141 TCCAGAAACTACGTTCCAGACTGTTTCTGGCACTTCTGCACTTCTAGGTTACAA 1200
Db 1141 TCCAGAAACTACGTTCCAGACTGTTTCTGGCACTTCTGCACTTCTAGGTTACAA 1200
Qy 1201 ACAGCTGCTCAACCGAGTCTTTATGCAATTTCTGGATGAAGCTTCAAGAGTCTTCA 1260
Db 1201 ACAGCTGCTCAACCGAGTCTTTATGCAATTTCTGGATGAAGCTTCAAGAGTCTTCA 1260
Qy 1261 GAGAGTCTGTATCCCACTCTTCCCAATTTGAGCAACAACTCCCACTCGAATTCGCT 1320
Db 1261 GAGAGTCTGTATCCCACTCTTCCCAATTTGAGCAACAACTCCCACTCGAATTCGCT 1320
Qy 1321 AGAACACTAGACACACCCCTCCAGGCCAATACAGTGGATAGAACTAATCATCAGCTAG 1380
Db 1321 AGAACACTAGACACACCCCTCCAGGCCAATACAGTGGATAGAACTAATCATCAGCTAG 1380
Qy 1381 AAAATCTGGAAGCAAACTGCTCGTTGCCCTAACAGGGTCTCATGCCATTCGACCTT 1440
Db 1381 AAAATCTGGAAGCAAACTGCTCGTTGCCCTAACAGGGTCTCATGCCATTCGACCTT 1440
Qy 1441 CACCAAGCTTAGAACCAACCATGATGTGGAAGCAGGTTGCTTCAAGAACTGTAGGAGG 1500

Db 1441 CACCAAGCTTAGAACCAACCATGATGTGGAAGCAGGTTGCTTCAAGAAATGTGTAGGAG 1500
Qy
Db 1501 CTCTAATTTCTTAGGAAAGTGCTACTTTTAGGTCTATCCAACTCTTTCTCTCTGGCCA 1560
Db 1501 CTCTAATTTCTTAGGAAAGTGCTACTTTTAGGTCTATCCAACTCTTTCTCTCTGGCCA 1560
Qy 1561 CTCTGCTCTGCACATTTAGAGGGAACGCCAAAGTAAGTGGAGCATTTGGAGGAAGGAA 1620
Db 1561 CTCTGCTCTGCACATTTAGAGGGAACGCCAAAGTAAGTGGAGCATTTGGAGGAAGGAA 1620
Qy 1621 TATACACACCGAGGATCCAGTTTGTGCAAGACACCCAGTGGAAACCAACCCATCGTG 1680
Db 1621 TATACACACCGAGGATCCAGTTTGTGCAAGACACCCAGTGGAAACCAACCCATCGTG 1680
Qy 1681 GTATGTGAATTGAAGTCAATCAAAAAGGTGACCCCTCTCTGTCTGTAAAGATTTATTTCAA 1740
Db 1681 GTATGTGAATTGAAGTCAATCAAAAAGGTGACCCCTCTCTGTCTGTAAAGATTTATTTCAA 1740
Qy 1741 GCAAAATATTTATGACCTCAACAAAAGAAACCAATCTTTTGTAAAGTTTCAACCGTAGTAACA 1800
Db 1741 GCAAAATATTTATGACCTCAACAAAAGAAACCAATCTTTTGTAAAGTTTCAACCGTAGTAACA 1800
Qy 1801 CATAAAGTAAATGCTACTCTGATCAAGCACCTTGAATGGAAGGTCGGAGTCTTTTAG 1860
Db 1801 CATAAAGTAAATGCTACTCTGATCAAGCACCTTGAATGGAAGGTCGGAGTCTTTTAG 1860
Qy 1861 TGTTTTTCGAAGGAAATGAATCCATTTATCTATTTTAGACTTTTAACTTCAACTTAAAT 1920
Db 1861 TGTTTTTCGAAGGAAATGAATCCATTTATCTATTTTAGACTTTTAACTTCAACTTAAAT 1920
Qy 1921 TAGCATCTGGCTAAGGCATCATTTTCACTTCCAATTTCTTGGTTTGTATTGTTTAAAAA 1980
Db 1921 TAGCATCTGGCTAAGGCATCATTTTCACTTCCAATTTCTTGGTTTGTATTGTTTAAAAA 1980
Qy 1981 AATAAATCTCTTTTCTATGCTCCATTAATGCAAGGAAGATTTAGCATGAAGGTAA 2040
Db 1981 AATAAATCTCTTTTCTATGCTCCATTAATGCAAGGAAGATTTAGCATGAAGGTAA 2040
Qy 2041 TCTGAAACACAGTCATGTGTGCANCTGTAGAAAGTTGATTTCTCATGCATNCAAAATCTT 2100
Db 2041 TCTGAAACACAGTCATGTGTGCANCTGTAGAAAGTTGATTTCTCATGCATNCAAAATCTT 2100
Qy 2101 CCAAGAGTCATCATGGGGATTTTTCATTTCTTAGGCTTTTTCAGTGGTTTGTCTCGAAT 2160
Db 2101 CCAAGAGTCATCATGGGGATTTTTCATTTCTTAGGCTTTTTCAGTGGTTTGTCTCGAAT 2160
Qy 2161 TC 2162
Db 2161 TC 2162

RESULT 6

US-09-883-839-3
; Sequence 3, Application US/09883839
; Publication No. US20040209250A1
; GENERAL INFORMATION:
; APPLICANT: Kreek, Mary Jeanne
; APPLICANT: Leforge, Karl Steven
; TITLE OF INVENTION: Alleles of the Human Mu Opioid Receptor,
; TITLE OF INVENTION: Diagnostic Methods Using Said Alleles, and Methods of
; TITLE OF INVENTION: Treatment Based Thereon
; FILE REFERENCE: 600-1-265N
; CURRENT APPLICATION NUMBER: US/09/883,839
; CURRENT FILING DATE: 2001-06-18
; PRIOR APPLICATION NUMBER: 60/212,225
; PRIOR FILING DATE: 2000-06-16
; NUMBER OF SEQ ID NOS: 10
; SOFTWARE: Fast-Seq for Windows Version 4.0
; SEQ ID NO 3
; LENGTH: 2162
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:

; NAME/KEY: misc_feature									
; LOCATION: 2063, 2091									
; OTHER INFORMATION: n = A,T,C or G									
US-09-883-839-3									
Query Match									
Best Local Similarity 99.8%; Score 2156.8; DB 3; Length 2162;									
Matches 2160; Conservative 0; Mismatches 2; Indels 0; Gaps 0;									
Qy	1	GGAAATTCGGGCTATAGGCAGAGAGAAATGTCAGATGCTCAGCTCGGTCCCTCCGCTGA	60						
Db	1	GGAAATTCGGGCTATAGGCAGAGAGAAATGTCAGATGCTCAGCTCGGTCCCTCCGCTGA	60						
Qy	61	CGCTCCTCTCTCTCAGCCAGGACTGGTTTCTGTAAGAAACAGCAGAGAGCTGTGGCAGC	120						
Db	61	CGCTCCTCTCTCTCAGCCAGGACTGGTTTCTGTAAGAAACAGCAGAGAGCTGTGGCAGC	120						
Qy	121	GGCGAAAGGAGCGGTGAGGCGCTTGGAAACCGAAAGTCTCGGTGCTCGGTACCT	180						
Db	121	GGCGAAAGGAGCGGTGAGGCGCTTGGAAACCGAAAGTCTCGGTGCTCGGTACCT	180						
Qy	181	CGCAGACGGGTGCGCGCGCGCGCTCAGTACCATGGACAGCAGCGCTGCCCCACGAAAG	240						
Db	181	CGCAGACGGGTGCGCGCGCGCGCTCAGTACCATGGACAGCAGCGCTGCCCCACGAAAG	240						
Qy	241	CCAGCAATTCGACTGATGCTTGGCGTACTCAAGTTGCTCCCGAGCACCAGCCCGGTT	300						
Db	241	CCAGCAATTCGACTGATGCTTGGCGTACTCAAGTTGCTCCCGAGCACCAGCCCGGTT	300						
Qy	301	CTGGGTCAACTGTGTCCTTAGATGCGCAACTGACCCAGCCATGCGGTCCGAAACCGCA	360						
Db	301	CTGGGTCAACTGTGTCCTTAGATGCGCAACTGACCCAGCCATGCGGTCCGAAACCGCA	360						
Qy	361	CCAACTCGGCGGGAGAGACAGCCTGTGCCCTCCGACCGGCAGTCCCTCATGATCAAG	420						
Db	361	CCAACTCGGCGGGAGAGACAGCCTGTGCCCTCCGACCGGCAGTCCCTCATGATCAAG	420						
Qy	421	CCATCAGATCATGCGCCCTTACTCCATCGTGTGCGTGGGGCTCTTCGGAACCTTCC	480						
Db	421	CCATCAGATCATGCGCCCTTACTCCATCGTGTGCGTGGGGCTCTTCGGAACCTTCC	480						
Qy	481	TGGTCATGATGATGATGTCAGATACCAAGATGAAGACTGCCACCAACATCTACATTT	540						
Db	481	TGGTCATGATGATGATGTCAGATACCAAGATGAAGACTGCCACCAACATCTACATTT	540						
Qy	541	TCAACCTTCTGTCGAGATGCCCTTAGCCACCAAGTACCCTGCCCTTCCAGAGTGTGAAT	600						
Db	541	TCAACCTTCTGTCGAGATGCCCTTAGCCACCAAGTACCCTGCCCTTCCAGAGTGTGAAT	600						
Qy	601	ACCTAATGGGAACATGGCCATTTGGAAACCATCTTTGGCAAGATAGTGATCTCCATAGAT	660						
Db	601	ACCTAATGGGAACATGGCCATTTGGAAACCATCTTTGGCAAGATAGTGATCTCCATAGAT	660						
Qy	661	ACTATAACATGTTCCACGACATATCCACCTCTGCAACCATGAGTGTGATCGATACATTTG	720						
Db	661	ACTATAACATGTTCCACGACATATCCACCTCTGCAACCATGAGTGTGATCGATACATTTG	720						
Qy	721	CAGTCTGCCACCTGTCAAGGCCCTTAGATTTCCGTACTCCCGAAATGCCAAATTTATCA	780						
Db	721	CAGTCTGCCACCTGTCAAGGCCCTTAGATTTCCGTACTCCCGAAATGCCAAATTTATCA	780						
Qy	781	ATGCTGCAACTGGATCTCTCTTCAGGCCATTTGGTCTTCTGTAATGTTTCATGGCTACAA	840						
Db	781	ATGCTGCAACTGGATCTCTCTTCAGGCCATTTGGTCTTCTGTAATGTTTCATGGCTACAA	840						
Qy	841	CAAAATACAGGCAAGGTTCCATAGATTGTACACTAACATTTCTCATCCAACTGGTACT	900						
Db	841	CAAAATACAGGCAAGGTTCCATAGATTGTACACTAACATTTCTCATCCAACTGGTACT	900						
Qy	901	GGGAAACCTCTGTGAAGATCTGTGTTTTCATCTTCGCTTTCATTTATGCCAGTCTCATCA	960						
Db	901	GGGAAACCTCTGTGAAGATCTGTGTTTTCATCTTCGCTTTCATTTATGCCAGTCTCATCA	960						

Qy	961	TTACCGTGTCTATGACTGATGATCTTGGCGCTCAAGAGTGTCCGATGCTCTCTGGCT	1020						
Db	961	TTACCGTGTCTATGACTGATGATCTTGGCGCTCAAGAGTGTCCGATGCTCTCTGGCT	1020						
Qy	1021	CCAAAGAAAAGGACAGGAATCTTGAAGGATCACAGAGTGTGTGTGGTGGTGGCTG	1080						
Db	1021	CCAAAGAAAAGGACAGGAATCTTGAAGGATCACAGAGTGTGTGTGGTGGTGGCTG	1080						
Qy	1081	TGTTTCATCGTCTGCTGGACTCCCATTCATATTAGTTCATTAAGCCCTTGGTTACAA	1140						
Db	1081	TGTTTCATCGTCTGCTGGACTCCCATTCATATTAGTTCATTAAGCCCTTGGTTACAA	1140						
Qy	1141	TCCAGAAATACAGTTCAGACTGTTTCTTGGCACTTCTGCACTTCTAGGTTCACAAA	1200						
Db	1141	TCCAGAAATACAGTTCAGACTGTTTCTTGGCACTTCTGCACTTCTAGGTTCACAAA	1200						
Qy	1201	ACAGTGTCTCAACCCAGTCCCTTTATGCACTTCTGGATGAAGAACCTTCAACGATGTTCA	1260						
Db	1201	ACAGTGTCTCAACCCAGTCCCTTTATGCACTTCTGGATGAAGAACCTTCAACGATGTTCA	1260						
Qy	1261	GAGAGTCTGTATCCCAACCTCTTCCAACTTGAGCAACAAACCTCCACTCGAATTCGTC	1320						
Db	1261	GAGAGTCTGTATCCCAACCTCTTCCAACTTGAGCAACAAACCTCCACTCGAATTCGTC	1320						
Qy	1321	AGAACCTAGAGACCAACCCCTCCACGGCCAATACAGTGGATAGAACTAATCATCAGCTAG	1380						
Db	1321	AGAACCTAGAGACCAACCCCTCCACGGCCAATACAGTGGATAGAACTAATCATCAGCTAG	1380						
Qy	1381	AAAACTCTGGAAGCAGAAACTGCTCCGTTGCCCTTAAACAGGGTCTCATGCCATTCGACCTT	1440						
Db	1381	AAAACTCTGGAAGCAGAAACTGCTCCGTTGCCCTTAAACAGGGTCTCATGCCATTCGACCTT	1440						
Qy	1441	CACCAAGCTTAGAAGCCACCTGATATGGAAGCAGGTGCTTCAAGATGTTGAGGAG	1500						
Db	1441	CACCAAGCTTAGAAGCCACCTGATATGGAAGCAGGTGCTTCAAGATGTTGAGGAG	1500						
Qy	1501	CTCTAATCTCTAGGAAGTGCCTACTTTTAGGTATCCAACTCTTTCTCTCTCGGCCA	1560						
Db	1501	CTCTAATCTCTAGGAAGTGCCTACTTTTAGGTATCCAACTCTTTCTCTCTCGGCCA	1560						
Qy	1561	CTCTCTCTGCACTTAGAGGACAGCCAAAGTAGTGAGGATTTGGAAGAAAGGAA	1620						
Db	1561	CTCTCTCTGCACTTAGAGGACAGCCAAAGTAGTGAGGATTTGGAAGAAAGGAA	1620						
Qy	1621	TATACACACCGAGGAGTCCAGTTTGTGCAAGCACCCAGTGGAAACCAACCCATCGTG	1680						
Db	1621	TATACACACCGAGGAGTCCAGTTTGTGCAAGCACCCAGTGGAAACCAACCCATCGTG	1680						
Qy	1681	GTATGTGAATTCGAAGTCACTATAAAGGTGACCTTCTCTCTGTAAAGATTTTATTTCAA	1740						
Db	1681	GTATGTGAATTCGAAGTCACTATAAAGGTGACCTTCTCTCTGTAAAGATTTTATTTCAA	1740						
Qy	1741	GCAAAATATTTATGACTCAACAAAGAAACCACTTTTGTGTAAGTTCCACGTAGTAACA	1800						
Db	1741	GCAAAATATTTATGACTCAACAAAGAAACCACTTTTGTGTAAGTTCCACGTAGTAACA	1800						
Qy	1801	CATAAAGTAAATGCTACCTCTCATCAAGCACCTTGAATGGAGGTCCTGTTTCTTTAG	1860						
Db	1801	CATAAAGTAAATGCTACCTCTCATCAAGCACCTTGAATGGAGGTCCTGTTTCTTTAG	1860						
Qy	1861	TGTTTTTGAAGGGAATGAATCCATTTTCTATTTTAGACTTTTAACTTTCAACTTAAAT	1920						
Db	1861	TGTTTTTGAAGGGAATGAATCCATTTTCTATTTTAGACTTTTAACTTTCAACTTAAAT	1920						
Qy	1921	TAGCATCTGGCTAAGGCATCATTTTCACTCCATTTCTTGGTTTCTATTTGTTTAAAAA	1980						
Db	1921	TAGCATCTGGCTAAGGCATCATTTTCACTCCATTTCTTGGTTTCTATTTGTTTAAAAA	1980						
Qy	1981	AATAACATCTCTTTTCTAGCTCCATAATTCGAGGAGAGATTTAGCATGAAGAGTAA	2040						
Db	1981	AATAACATCTCTTTTCTAGCTCCATAATTCGAGGAGAGATTTAGCATGAAGAGTAA	2040						
Qy	2041	TCTGAAACACAGTCTGTGTCTCAGTGTAGAAAGGTTGATTTCTCATGCATCNAATACTT	2100						

Db 2041 TCTGAAACAGATCATGTGTCANCTGTAGAAAGTTGATTTCTCATGCATNCATAATCTT 2100
QY 2101 CCAAAGAGTCATCATGGGGATTTTCATCTTTAGGCTTTCAGTGGTTTGTCTCGAAT 2160
Db 2101 CCAAAGAGTCATCATGGGGATTTTCATCTTTAGGCTTTCAGTGGTTTGTCTCGAAT 2160
QY 2161 TC 2162
Db 2161 TC 2162

RESULT 7

US-09-883-839-7
; Sequence 7, Application US/09883839
; Publication No. US20040209250A1
; GENERAL INFORMATION:
; APPLICANT: Kreek, Mary Jeanne
; TITLE OF INVENTION: Alleles of the Human Mu Opioid Receptor,
; TITLE OF INVENTION: Diagnostic Methods Using Said Alleles, and Methods of
; TITLE OF INVENTION: Treatment Based Thereon
; FILE REFERENCE: 600-1-266N
; CURRENT FILING DATE: 2001-06-18
; PRIOR APPLICATION NUMBER: 60/212,225
; PRIOR FILING DATE: 2000-06-16
; NUMBER OF SEQ ID NOS: 10
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 7
; LENGTH: 2162
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: 2063..2091
; OTHER INFORMATION: n = A,T,C or G
US-09-883-839-7

Query Match 99.8%; Score 2156.8; DB 3; Length 2162;

Best Local Similarity 99.9%; Pred. No. 0;

Matches 2160; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 GGAATTCGGCTATAGCAGAGGAGATGTCAGATGCTCAGCTCGGTCCTCGCCTGA 60
Db 1 GGAATTCGGCTATAGCAGAGGAGATGTCAGATGCTCAGCTCGGTCCTCGCCTGA 60
QY 61 CGCTCCCTCTGCTCAGCCAGGACTGTTTCTGTAAGAAACAGCAGGAGCTGTGGCAGC 120
Db 61 CGCTCCCTCTGCTCAGCCAGGACTGTTTCTGTAAGAAACAGCAGGAGCTGTGGCAGC 120
QY 121 GCGAAAGGAGCGGCTGAGCGCTTGGAAACCGGAAAGTCTCGGTGCTCTGGCTACCT 180
Db 121 GCGAAAGGAGCGGCTGAGCGCTTGGAAACCGGAAAGTCTCGGTGCTCTGGCTACCT 180
QY 181 CGCACAGCGTGCCGCGCGCGCTCAGTACCAGCAGCAGCGCTGCCCCACGAAAG 240
Db 181 CGCACAGCGTGCCGCGCGCGCTCAGTACCAGCAGCAGCGCTGCCCCACGAAAG 240
QY 241 CCAGCAATTCACATGATGCTTGGCTGCTCAAGTGTCTCCAGCAGCAGCGCGCTT 300
Db 241 CCAGCAATTCACATGATGCTTGGCTGCTCAAGTGTCTCCAGCAGCAGCGCGCTT 300
QY 301 CCTGGGTCAACTTGTCTCCACCTTAGATGGCAACCTGACCGACCCATGCGGTCCGAACCGCA 360
Db 301 CCTGGGTCAACTTGTCTCCACCTTAGATGGCAACCTGACCGACCCATGCGGTCCGAACCGCA 360
QY 361 CCAACCTGGCGGAGAGAGACAGCTGTGCCCTCCGACCGGAGTCCCTCCATGATCAGG 420
Db 361 CCAATCTGGCGGAGAGAGACAGCTGTGCCCTCCGACCGGAGTCCCTCCATGATCAGG 420
QY 421 CCATCAGATCATCGCCCTCTACTCCATCGTGTGGGTCTTTCGGGCTCTTCGGAACCTTCC 480

Db 421 CCATCAGATCATCGCCCTCTACTCCATCGTGTGGGTCTTTCGGAAACTTCC 480
QY 481 TGGTCAATGATGATGATGTCAGATACACCAAGATGAAGACTGCCACCAATCTACATTT 540
Db 481 TGGTCAATGATGATGATGTCAGATACACCAAGATGAAGACTGCCACCAATCTACATTT 540
QY 541 TCAACCTTGTCTCTGGCAGATGCTTTAGCCACAGTACCTGCTTCCAGAGTGTGAAT 600
Db 541 TCAACCTTGTCTCTGGCAGATGCTTTAGCCACAGTACCTGCTTCCAGAGTGTGAAT 600
QY 601 ACCTAATGGGAACATGGCCATTTGGAACCATCTTTGCAAGATAGTGTCTCCATAGATT 660
Db 601 ACCTAATGGGAACATGGCCATTTGGAACCATCTTTGCAAGATAGTGTCTCCATAGATT 660
QY 661 ACTATAACATGTTTCAACAGCATATTCACCTCTGCAACATGATGTTGATGATGATG 720
Db 661 ACTATAACATGTTTCAACAGCATATTCACCTCTGCAACATGATGTTGATGATGATG 720
QY 721 CAGTCTGCCACCTGTCAAGGCTTAGATTTCGGTACTCCCGAATGCCAAATATATCA 780
Db 721 CAGTCTGCCACCTGTCAAGGCTTAGATTTCGGTACTCCCGAATGCCAAATATATCA 780
QY 781 ATGCTGCAACTGGATCTCTCTTTCAGCCATTTGGTCTTCTGTAATGTTTCATGGCTACAA 840
Db 781 ATGCTGCAACTGGATCTCTCTTTCAGCCATTTGGTCTTCTGTAATGTTTCATGGCTACAA 840
QY 841 CAAAATACAGGCAAGGTTCCATAGATTGTACATAACATTTCTCTCAACCTGGTACT 900
Db 841 CAAAATACAGGCAAGGTTCCATAGATTGTACATAACATTTCTCTCAACCTGGTACT 900
QY 901 GGGAAACCTCGTGGAAGATCTGTGTTTTCATCTTCGCTTTCATATGCCAGTGTCTATCA 960
Db 901 GGGAAACCTCGTGGAAGATCTGTGTTTTCATCTTCGCTTTCATATGCCAGTGTCTATCA 960
QY 961 TTAGCGTGTCTATGACATGATCTTGGCCCTCAAGAGTGCCTGCTCTCTCGCT 1020
Db 961 TTAGCGTGTCTATGACATGATCTTGGCCCTCAAGAGTGCCTGCTCTCTCGCT 1020
QY 1021 CCAAGAAAGGACAGGAATCTTCGAAGGATCACAGGATGCTGCTGGTGGTGGCTG 1080
Db 1021 CCAAGAAAGGACAGGAATCTTCGAAGGATCACAGGATGCTGCTGGTGGTGGCTG 1080
QY 1081 TGTTCATCGTCTGCTGGACTCCCATTCACATTTACGTCATCATTAAGCCCTTGGTTACAA 1140
Db 1081 TGTTCATCGTCTGCTGGACTCCCATTCACATTTACGTCATCATTAAGCCCTTGGTTACAA 1140
QY 1141 TCCCAAGAACTAGCTTCCAGACTGTTTCTTGGCAGTCTTGCATTTGCTTAGGTTACAA 1200
Db 1141 TCCCAAGAACTAGCTTCCAGACTGTTTCTTGGCAGTCTTGCATTTGCTTAGGTTACAA 1200
QY 1201 ACAGCTGCCTCAACCCAGTCTTTTATGCAATTTCTGGATGAAACCTTCAAAACGATGCTTCA 1260
Db 1201 ACAGCTGCCTCAACCCAGTCTTTTATGCAATTTCTGGATGAAACCTTCAAAACGATGCTTCA 1260
QY 1261 GAGAGTTCTGTATCCCAACCTCTTCCAAATTCAGCAACAAACCTCCACCTCGAATTCGTC 1320
Db 1261 GAGAGTTCTGTATCCCAACCTCTTCCAAATTCAGCAACAAACCTCCACCTCGAATTCGTC 1320
QY 1321 AGAACACTAGAGACACCCCTCCACGCGCAATACAGTGGATAGNACTAATCATCAGCTAG 1380
Db 1321 AGAACACTAGAGACACCCCTCCACGCGCAATACAGTGGATAGNACTAATCATCAGCTAG 1380
QY 1381 AAAATCTGGAAGCAGAACTGCTCCGTTGCCCTTAAACAGGCTCTCATGCCATTCGACCTT 1440
Db 1381 AAAATCTGGAAGCAGAACTGCTCCGTTGCCCTTAAACAGGCTCTCATGCCATTCGACCTT 1440
QY 1441 CACCAAGCTTTAGGAAGCACCACCATGTTGTTGGAAGCAGGTTGCTTCAAGAAATGTTAGGAG 1500
Db 1441 CACCAAGCTTTAGGAAGCACCACCATGTTGTTGGAAGCAGGTTGCTTCAAGAAATGTTAGGAG 1500
QY 1501 CTCTAATCTCTAGGAAAGTGCCTTACTTTTAGGTTAGTGCATCCAACTCTTCTCTCTGGCCA 1560
Db 1501 CTCTAATCTCTAGGAAAGTGCCTTACTTTTAGGTTAGTGCATCCAACTCTTCTCTCTGGCCA 1560

Query Match	99.8%;	Score 2156.8;	DB 3;	Length 2162;
Best Local Similarity	99.9%;	Pred. No. 0;		
Matches 2160;	Conservative 0;	Mismatches 2;	Indels 0;	Gaps 0;
QY	1	GGAAATTCGGCTATATAGGCAGAGGAGAATGTCAGATGCTCAGCTCGGTCCCTCCGCTCGA	60	
DB	1	GGAAATTCGGCTATATAGGCAGAGGAGAATGTCAGATGCTCAGCTCGGTCCCTCCGCTCGA	60	
QY	61	CGCTCCTCTCTGTCTCAGCCAGGACTCGTTTCTGTAAAGAACAGCAGGAGCTGTGGCAGC	120	
DB	61	CGCTCCTCTCTGTCTCAGCCAGGACTCGTTTCTGTAAAGAACAGCAGGAGCTGTGGCAGC	120	
QY	121	GGCGAAGAAAGCGGCTGAGCGCTTGGAACCCGAAAGTCTCGGTGCTCTCGGTACCT	180	
DB	121	GGCGAAGAAAGCGGCTGAGCGCTTGGAACCCGAAAGTCTCGGTGCTCTCGGTACCT	180	
QY	181	CGCAGCGGTGCCCGCCCGCTCAGTACCTAGTACAGCAGCGCTGCCCCACGAACG	240	
DB	181	CGCAGCGGTGCCCGCCCGCTCAGTACCTAGTACAGCAGCGCTGCCCCACGAACG	240	
QY	241	CCAGCAATTTGCACTGATGCTTGGCGTACTCAAGTTGCTCCCGCAGCACCCAGCCCCGGTT	300	
DB	241	CCAGCAATTTGCACTGATGCTTGGCGTACTCAAGTTGCTCCCGCAGCACCCAGCCCCGGTT	300	
QY	301	CTGTGGTCAACTTGTCCTCATTAGATGGCAAACCTGACGACCCATGCGGTGCCAACCGCA	360	
DB	301	CTGTGGTCAACTTGTCCTCATTAGATGGCAAACCTGTCGACCCATGCGGTGCCAACCGCA	360	
QY	361	CCAACTTGGCGGAGAGACAGCCTGTGCCCTCCGACCGCAGTCCCTCATGATCACGG	420	
DB	361	CCAACTTGGCGGAGAGACAGCCTATGCCCCCTCGACCGCAGTCCCTCATGATCACGG	420	
QY	421	CCATCAGCATCATGGCCCTCTACTCCATCGTGTGCTGTGGGTCTTCGGAACCTTCC	480	
DB	421	CCATCAGCATCATGGCCCTCTACTCCATCGTGTGCTGTGGGTCTTCGGAACCTTCC	480	
QY	481	TGTCATCATGTGTGATTGTGATGATACACCAAGATGAAGATGCGCACCAATCTCATTT	540	
DB	481	TGTCATCATGTGTGATTGTGATGATACACCAAGATGAAGATGCGCACCAATCTCATTT	540	
QY	541	TCAACTTGTCTTGGCAGATGCCCTTAGCCACCAAGTACCCCTCCAGGTGTGAAT	600	
DB	541	TCAACTTGTCTTGGCAGATGCCCTTAGCCACCAAGTACCCCTCCAGGTGTGAAT	600	
QY	601	ACCTAATGGGAACATGGGCATTTGGAACCATCTCTTTGCAAGATAGTGTATCTCCATAGAT	660	
DB	601	ACCTAATGGGAACATGGGCATTTGGAACCATCTCTTTGCAAGATAGTGTATCTCCATAGAT	660	
QY	661	ACTATAACATGTTACCAAGCATATTCACCTCTGCAACATGAGTGTGATGATGATG	720	
DB	661	ACTATAACATGTTACCAAGCATATTCACCTCTGCAACATGAGTGTGATGATGATG	720	
QY	721	CAGTCTGCACCTGTCAAGCCCTTAGATTTCCGTACTCTCCCGAATGCCAAATATATCA	780	
DB	721	CAGTCTGCACCTGTCAAGCCCTTAGATTTCCGTACTCTCCCGAATGCCAAATATATCA	780	
QY	781	ATGTCGTCAAATGGGATCTCTCTTTCAGCCATTTGTCTTGTAAATGTTCTATGGCTACAA	840	
DB	781	ATGTCGTCAAATGGGATCTCTCTTTCAGCCATTTGTCTTGTAAATGTTCTATGGCTACAA	840	
QY	841	CAAAATACAGGCAAGGTTTCCATAGATTGTACATAACATTTCTTCATCCAAACCTGGTACT	900	
DB	841	CAAAATACAGGCAAGGTTTCCATAGATTGTACATAACATTTCTTCATCCAAACCTGGTACT	900	
QY	901	GGGAAAACTCGTGAAGATCTGTGTTTTTCATCTTTCGGCTTCATTATGCCAGTCTCATCA	960	
DB	901	GGGAAAACTCGTGAAGATCTGTGTTTTTCATCTTTCGGCTTCATTATGCCAGTCTCATCA	960	
QY	961	TTACCGTGTGCTATGAGCTGATGATCTTGGCCCTCAAGAGTGTCCGATGCTCTCTGGCT	1020	
DB	961	TTACCGTGTGCTATGAGCTGATGATCTTGGCCCTCAAGAGTGTCCGATGCTCTCTGGCT	1020	
QY	1021	CCAAAGAAAGGACAGGAATCTTCCGAAGGATCACCAAGATGGTCTGGTGGTGGCTG	1080	

Db 1021 CCAAGGAAAGGACGAGATCTTCGAAGGATCACCAGGATGGTGGTGGTGGCTG 1080
Qy |||||
Db 1081 TGTTTCATCGTCTGCTGGAGCTCCCATTCACATTTACGTATCATTAAGCCCTGGTTACAA 1140
Qy |||||
Db 1081 TGTTTCATCGTCTGCTGGAGCTCCCATTCACATTTACGTATCATTAAGCCCTGGTTACAA 1140
Qy |||||
Db 1141 TCCAGGAAACTAGTTCCAGACTGTTCTTGGGCACTTCGCAATTCGTAGGTTACACAA 1200
Qy |||||
Db 1141 TCCAGGAAACTAGTTCCAGACTGTTCTTGGGCACTTCGCAATTCGTAGGTTACACAA 1200
Qy |||||
Db 1201 ACAGCTGCCTCAACCCAGTCTTTATGCACTTTCTGGATGAAACTTCAACAGTACTTCA 1260
Qy |||||
Db 1201 ACAGCTGCCTCAACCCAGTCTTTATGCACTTTCTGGATGAAACTTCAACAGTACTTCA 1260
Qy |||||
Db 1261 GAGAGTTCTGTATCCCACTCTTCCCAATTCAGCAATTCAGCAATTCAGTAAATTCGTC 1320
Qy |||||
Db 1261 GAGAGTTCTGTATCCCACTCTTCCCAATTCAGCAATTCAGCAATTCAGTAAATTCGTC 1320
Qy |||||
Db 1321 AGAACACTAGAGACCCCTCCAGGCGCAATACAGTGGATAGAACTTAATCATCAGCTAG 1380
Qy |||||
Db 1321 AGAACACTAGAGACCCCTCCAGGCGCAATACAGTGGATAGAACTTAATCATCAGCTAG 1380
Qy |||||
Db 1381 AAAATCTGGAAGCAGAACTGCTCCGTTGCCCTAAACAGGCTCTCATGCCATTCGACCTT 1440
Qy |||||
Db 1381 AAAATCTGGAAGCAGAACTGCTCCGTTGCCCTAAACAGGCTCTCATGCCATTCGACCTT 1440
Qy |||||
Db 1441 CACCAAGCTTAGAAGCCACCATGTATGTGGAAGCAGGTTGCTTCAAGAAATGTGTAGAGG 1500
Qy |||||
Db 1441 CACCAAGCTTAGAAGCCACCATGTATGTGGAAGCAGGTTGCTTCAAGAAATGTGTAGAGG 1500
Qy |||||
Db 1501 CTCTAATCTCTAGGAAGTGCCTTCTTTAGTGTATCCCACTCTTTCCTCTCTGCGCA 1560
Qy |||||
Db 1501 CTCTAATCTCTAGGAAGTGCCTTCTTTAGTGTATCCCACTCTTTCCTCTCTGCGCA 1560
Qy |||||
Db 1561 CTCTGCTCTGCATATTAGGGGACAGCCAAAGAAAGTAAAGTGAGGATTTGGGAAGGAA 1620
Qy |||||
Db 1561 CTCTGCTCTGCATATTAGGGGACAGCCAAAGAAAGTAAAGTGAGGATTTGGGAAGGAA 1620
Qy |||||
Db 1621 TATACCAACCGGAGGTCAGTTTGTGCAAGACACCCAGTGGAAACCAAAACCCATCGTG 1680
Qy |||||
Db 1621 TATACCAACCGGAGGTCAGTTTGTGCAAGACACCCAGTGGAAACCAAAACCCATCGTG 1680
Qy |||||
Db 1681 GTATGTGAATGAAGTCAATATAAAGGTGACCTTCTGTCTGTAGATTTTATTTTCAA 1740
Qy |||||
Db 1681 GTATGTGAATGAAGTCAATATAAAGGTGACCTTCTGTCTGTAGATTTTATTTTCAA 1740
Qy |||||
Db 1741 GCAAAATTTATGACCTCAACAAAGAAAGAACCATCTTTTGTAAAGTTTCAACGTAGTAA 1800
Qy |||||
Db 1741 GCAAAATTTATGACCTCAACAAAGAAAGAACCATCTTTTGTAAAGTTTCAACGTAGTAA 1800
Qy |||||
Db 1801 CATAAAGTAAATGCTACTCTGTATCAAGACACCTTGAATGGAAGTCCGAGTCTTTTATG 1860
Qy |||||
Db 1801 CATAAAGTAAATGCTACTCTGTATCAAGACACCTTGAATGGAAGTCCGAGTCTTTTATG 1860
Qy |||||
Db 1861 TGTTTTGCAAGGAAATGAATCCATTTATTTTATGACCTTTTAACTTCAACTTAAAT 1920
Qy |||||
Db 1861 TGTTTTGCAAGGAAATGAATCCATTTATTTTATGACCTTTTAACTTCAACTTAAAT 1920
Qy |||||
Db 1921 TAGCATCTGGCTAAGGATCATTTTCACTTCACTTCTTGGTTTGTATTTTAAATAA 1980
Qy |||||
Db 1921 TAGCATCTGGCTAAGGATCATTTTCACTTCACTTCTTGGTTTGTATTTTAAATAA 1980
Qy |||||
Db 1981 AATAACATCTCTTTTCACTAGCTCCATAATTGCAAGGAAAGAGATTAGCATGAAGGTAA 2040
Qy |||||
Db 1981 AATAACATCTCTTTTCACTAGCTCCATAATTGCAAGGAAAGAGATTAGCATGAAGGTAA 2040
Qy |||||
Db 2041 TCTGAAACAGAGTCACTGTGCATCTAGAAAGTGTGATTTCTCATGCACTNCAATACTT 2100
Qy |||||
Db 2041 TCTGAAACAGAGTCACTGTGCATCTAGAAAGTGTGATTTCTCATGCACTNCAATACTT 2100
Qy |||||
Db 2101 CCAAGAGTCAATCGGGGATTTTTCATTTCTTAGGCTTTTCAGTGGTTTGTTCCTCGAAT 2160
Qy |||||

Db 2101 CCAAGAGTCAATCGGGGATTTTTCATTTCTAGGCTTTTTCAGTGGTTTGTTCCTCGAAT 2160
Qy |||||
Db 2161 TC 2162
Qy |||||
Db 2161 TC 2162
Qy |||||
RESULT 9
US-09-883-839-9
; Sequence 9, Application US/09883839
; Publication No. US20040209250A1
; GENERAL INFORMATION:
; APPLICANT: Kreek, Mary Jeanne
; APPLICANT: LaForge, Karl Steven
; TITLE OF INVENTION: Alleles of the Human Mu Opioid Receptor,
; TITLE OF INVENTION: Diagnostic Methods Using Said Alleles, and Methods of
; TITLE OF INVENTION: Treatment Based Thereon
; FILE REFERENCE: 600-1-266N
; CURRENT APPLICATION NUMBER: US/09/883,839
; CURRENT FILING DATE: 2001-06-18
; PRIOR APPLICATION NUMBER: 60/212,225
; PRIOR FILING DATE: 2000-06-16
; NUMBER OF SEQ ID NOS: 10
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 9
; LENGTH: 2165
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: 2066, 2094
; OTHER INFORMATION: n = A,T,C or G
US-09-883-839-9
Query Match 99.2%; Score 2145.4; DB 3; Length 2165;
Best Local Similarity 99.8%; Pred. NO. 0;
Matches 2161; Conservative 0; Mismatches 1; Indels 3; Gaps 1;
Qy 1 GGAATTTCCGGCTATAGGCAGAGGAGAAATGTACAGTCTCGGTCCCTCCGCTCGA 60
Db 1 GGAATTTCCGGCTATAGGCAGAGGAGAAATGTACAGTCTCGGTCCCTCCGCTCGA 60
Qy 61 CGCTCTCTCTGTCTCAGCCAGGACTGGTTTCTGTAAAGAAACAGAGAGCTGTGGCAGC 120
Db 61 CGCTCTCTCTGTCTCAGCCAGGACTGGTTTCTGTAAAGAAACAGAGAGCTGTGGCAGC 120
Qy 121 GCGGAAAGGAGCGGCTGAGCGCTTGGAAACCCGAAAAGTCTCGGTCTCTGGCTACCT 180
Db 121 GCGGAAAGGAGCGGCTGAGCGCTTGGAAACCCGAAAAGTCTCGGTCTCTGGCTACCT 180
Qy 181 CGCACAGCGGTGCCCGCGCTCAGTACCATGGACAGCAGCGCTGCCCCACGAAACG 240
Db 181 CGCACAGCGGTGCCCGCGCTCAGTACCATGGACAGCAGCGCTGCCCCACGAAACG 240
Qy 241 CCAAGCAATTCGACTGTATGCTTGGCGTACTCAAGTTGCTCCCGAGCACCCAGCCCGGTT 300
Db 241 CCAAGCAATTCGACTGTATGCTTGGCGTACTCAAGTTGCTCCCGAGCACCCAGCCCGGTT 300
Qy 301 CTGGGTCAACTTGTCCCACTTAGAGTGGCAACCTGTCCGACCCATGCGGTCCGAAACCGCA 360
Db 301 CTGGGTCAACTTGTCCCACTTAGAGTGGCAACCTGTCCGACCCATGCGGTCCGAAACCGCA 360
Qy 361 CCAACCTGGCGGAGAGACAGCGCTGTGCCCTCCGAC- --CGGCAGTCCCTCCATGATCA 417
Db 361 CCAACCTGGCGGAGAGACAGCGCTGTGCCCTCCGACCGGCGGAGTCCCTCCATGATCA 420
Qy 418 CGGCCATCAGATCATGGCCCTCTACTCCATCGTGTGCGTGGGGCTCTTCGGAACCT 477
Db 418 CGGCCATCAGATCATGGCCCTCTACTCCATCGTGTGCGTGGGGCTCTTCGGAACCT 480
Qy 478 TCCTGGTCAATGTATGTGATTTGTAGATACACCAAGATGAAGACTGCCCAACATCTACA 537
Db 478 TCCTGGTCAATGTATGTGATTTGTAGATACACCAAGATGAAGACTGCCCAACATCTACA 540

QY 538 TTTTCAACCTTGCTCTGGCAGATGCTTACGACACAGTACCTTGCCTTCCAGAGTGTGA 597
DB 541 TTTTCAACCTTGCTCTGGCAGATGCTTACGACACAGTACCTTGCCTTCCAGAGTGTGA 600
QY 598 ATTACCTAATGGGAACATGSCCATTTGGAAACCATCTTTGCAAGATAGTGATCTCCATAG 657
DB 601 ATTACCTAATGGGAACATGSCCATTTGGAAACCATCTTTGCAAGATAGTGATCTCCATAG 660
QY 658 ATTACTATAACATGTTTACCAGCATATTCACCCCTCTGCAACCATGAGTGTGTATCGATACA 717
DB 661 ATTACTATAACATGTTTACCAGCATATTCACCCCTCTGCAACCATGAGTGTGTATCGATACA 720
QY 718 TTGCAGTCTGCCACCTCTGCAAGCCTTAGATTTCCGTAATTCGCTACTCCCGAAATGCCAAATTA 777
DB 721 TTGCAGTCTGCCACCTCTGCAAGCCTTAGATTTCCGTAATTCGCTACTCCCGAAATGCCAAATTA 780
QY 778 TCAATGCTCTGCAACTGTCATCTCTCTTACGCCATTTGCTCTGTAATGTTTCATGGCTA 837
DB 781 TCAATGCTCTGCAACTGTCATCTCTCTTACGCCATTTGCTCTGTAATGTTTCATGGCTA 840
QY 838 CAACAAAATACAGGCAAGGTTCATAGATTGTACATACTTCTCTCATCCAACCTGGT 897
DB 841 CAACAAAATACAGGCAAGGTTCATAGATTGTACATACTTCTCTCATCCAACCTGGT 900
QY 898 ACTGGGAAAACCTCTGTGAAGATCTGTGTTTTTCATCTTCGCCCTTCAATATGCCAGTCTCA 957
DB 901 ACTGGGAAAACCTCTGTGAAGATCTGTGTTTTTCATCTTCGCCCTTCAATATGCCAGTCTCA 960
QY 958 TCAATACCTGTGCTATGACATGATCTTGGCCCTCAAGAGTGTCCGATGCTCTCTG 1017
DB 961 TCAATACCTGTGCTATGACATGATCTTGGCCCTCAAGAGTGTCCGATGCTCTCTCTG 1020
QY 1018 GCTCCAAAGAAAAGGACAGGAATCTTCGAAGGATCACAGGATGCTGTGGTGGTG 1077
DB 1021 GCTCCAAAGAAAAGGACAGGAATCTTCGAAGGATCACAGGATGCTGTGGTGGTG 1080
QY 1078 CTGTGTTTCATCGTCTGCTGAGCTCCCATTTACATTTACGTCATATAAGCCTTGGTTA 1137
DB 1081 CTGTGTTTCATCGTCTGCTGAGCTCCCATTTACATTTACGTCATATAAGCCTTGGTTA 1140
QY 1138 CAATCCAGAAACTAGTCTCCAGACTGTTTCTTGGCACTTCTGCTTCTAGGTTACA 1197
DB 1141 CAATCCAGAAACTAGTCTCCAGACTGTTTCTTGGCACTTCTGCTTCTAGGTTACA 1200
QY 1198 CAAACAGCTGCCTCAAACCCAGCTCTTTATGCAATTTCTGGATGAAAACCTTCAAACGATGCT 1257
DB 1201 CAAACAGCTGCCTCAAACCCAGCTCTTTATGCAATTTCTGGATGAAAACCTTCAAACGATGCT 1260
QY 1258 TCAGAGATTTCTGTATCCCAACCTCTTCCAAACATTTAGGCAACAAACTCCACTCGAATTC 1317
DB 1261 TCAGAGATTTCTGTATCCCAACCTCTTCCAAACATTTAGGCAACAAACTCCACTCGAATTC 1320
QY 1318 GTCAGAACACTAGAACACCCCTCCACGCCCAATACAGTGGATAGAACTAATCATCAGC 1377
DB 1321 GTCAGAACACTAGAACACCCCTCCACGCCCAATACAGTGGATAGAACTAATCATCAGC 1380
QY 1378 TAGAAAATCTGGAAGCAGAAAATGCTCCGTTGCGCTTAACAGGGTCTTCATGCCATTCGAC 1437
DB 1381 TAGAAAATCTGGAAGCAGAAAATGCTCCGTTGCGCTTAACAGGGTCTTCATGCCATTCGAC 1440
QY 1438 CTTTCAACAGCTTAGAAGCCACATGTATGTGGAAGCAGGTTGCTTTCAGAAATGTGTAGG 1497
DB 1441 CTTTCAACAGCTTAGAAGCCACATGTATGTGGAAGCAGGTTGCTTTCAGAAATGTGTAGG 1500
QY 1498 AGGCTCTAATCTCTAGGAAAGTCCCTATCTTTTAGGTTCATCCAACTCTTCTCTCTG 1557
DB 1501 AGGCTCTAATCTCTAGGAAAGTCCCTATCTTTTAGGTTCATCCAACTCTTCTCTCTG 1560
QY 1558 CCACTCTGCTCTGCACATTTAGAGGGAACAGCCAAAAGTAAGTGGAGCATTTTGGAAAGGAAG 1617
DB 1561 CCACTCTGCTCTGCACATTTAGAGGGAACAGCCAAAAGTAAGTGGAGCATTTTGGAAAGGAAG 1620

QY 1618 GAATATACACACCCAGGAGTCCAGTTTGTGCAAGACACCCAGTGGAAACAAAACCCATC 1677
DB 1621 GAATATACACACCCAGGAGTCCAGTTTGTGCAAGACACCCAGTGGAAACAAAACCCATC 1680
QY 1678 GTGGTATGTGAATTGAAGTCATATAAAGGAGTGACCCCTCTCTGTCTGTAAAGATTTATTTT 1737
DB 1681 GTGGTATGTGAATTGAAGTCATATAAAGGAGTGACCCCTCTCTGTCTGTAAAGATTTATTTT 1740
QY 1738 CAAGCAAAATATTTATGACCTCAACAAAGAAACCATCTTTTGTAAAGTTCACCGTAGTA 1797
DB 1741 CAAGCAAAATATTTATGACCTCAACAAAGAAACCATCTTTTGTAAAGTTCACCGTAGTA 1800
QY 1798 ACACATAAAGTAAATGCTACCTCTCATCAAAAGCACCTTGAATGGAGGTCGAGTCTTTT 1857
DB 1801 ACACATAAAGTAAATGCTACCTCTCATCAAAAGCACCTTGAATGGAGGTCGAGTCTTTT 1860
QY 1858 TAGTGTCTTTGCAAGGGAATGAATCCATTAATTTTAGACTTTTAACTTTAACTTTAA 1917
DB 1861 TAGTGTCTTTGCAAGGGAATGAATCCATTAATTTTAGACTTTTAACTTTCAACTTAA 1920
QY 1918 AATTAGCATCTGGCTAAGGCATCTTTTCACTCCATTTCTTGGTCTTTGTTATTTTAA 1977
DB 1921 AATTAGCATCTGGCTAAGGCATCTTTTCACTCCATTTCTTGGTCTTTGTTATTTAA 1980
QY 1978 AAAATAACATCTCTTTTCACTAGCTCCATAATTCAGGGAAGAGATTAGCATGAAAG 2037
DB 1981 AAAATAACATCTCTTTTCACTAGCTCCATAATTCAGGGAAGAGATTAGCATGAAAG 2040
QY 2038 TAATCTGAAAACACAGTCATGTCTCANCTGTAGAAAAGTTGATTTCTCATGCACCTNCAATA 2097
DB 2041 TAATCTGAAAACACAGTCATGTCTCANCTGTAGAAAAGTTGATTTCTCATGCACCTNCAATA 2100
QY 2098 CTTTCAAAAGAGTCATCATGGGGATTTTTCATCTTAGGCTTTAGTGGTCTTCTCTGG 2157
DB 2101 CTTTCAAAAGAGTCATCATGGGGATTTTTCATCTTAGGCTTTAGTGGTCTTCTCTGG 2160
QY 2158 AATTC 2162
DB 2161 AATTC 2165

RESULT 10

US-10-080-917-12
; Sequence 12, Application US/10080917
; Publication No. US20030054451A1
; GENERAL INFORMATION:
; APPLICANT: Cadet, Patrick
; APPLICANT: Stefano, George B.
; TITLE OF INVENTION: Opiate Receptors
; FILE REFERENCE: 09598-006001
; CURRENT APPLICATION NUMBER: US/10/080,917
; CURRENT FILING DATE: 2002-02-22
; PRIOR APPLICATION NUMBER: US 60/270,479
; PRIOR FILING DATE: 2001-02-22
; PRIOR APPLICATION NUMBER: US 60/336,677
; PRIOR FILING DATE: 2001-12-05
; NUMBER OF SEQ ID NOS: 28
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 12
; LENGTH: 2149
; TYPE: DNA
; ORGANISM: Homo Sapiens
US-10-080-917-12

Query Match 97.5%; Score 2108.8; DB 5; Length 2149;
Best Local Similarity 99.5%; Pred. No. 0;
Matches 2135; Conservative 0; Mismatches 9; Indels 2; Gaps 2;
QY 9 GGCTATAGCAGGAGGAGATGTAGTCTAGTCCGCTCCGCTGAGCGTCTCTC 68
DB 6 GGCTATACGACAGGAGGAGATGTAGTCTAGTCCGCTCCGCTGAGCGTCTCTC 65
QY 69 TCTGTCTCAGCCAGGACTGGTTTCTGTAGAAAACAGCAGGAGCTGTGGCAGCGGCGAAAG 128

Db 66 TCTGTCTCGCAGGACTGTTTCTGTAAAGAACAGCAGGAGCTGTGGCAGCGCGAAG 125
Qy 129 GAAGCGGCTGAGGCGCTTGGAAACCCGAAAAGTCTCGGTGCTCTCGGTGTAACCTGCGACAGC 188
Db 126 GAAGCGGCTGAGGCGCTTGGAAACCCGAAAAGTCTCGGTGCTCTCGGTGTAACCTGCGACAGC 185
Qy 189 GGTGCCCGCGCGCGCTGAGTACATGAGCAGAGCGCTGCCCGCCAGAACGCCAGCAAT 248
Db 186 GGTGCCCGCGCGCGCTGAGTACATGAGCAGAGCGCTGCCCGCCAGAACGCCAGCAAT 245
Qy 249 TGCACTGATGCTTGGGGTACTCAAGTGTCTCCCGACACCCAGCGCCCGGTTCCTGGGTC 308
Db 246 TGCACTGATGCTTGGGGTACTCAAGTGTCTCCCGACACCCAGCGCCCGGTTCCTGGGTC 305
Qy 309 AACTTGTCCCACTTAGATGGCAACCTGACCGAACCCATGGCGTCCGAACCGCACCACTG 368
Db 306 AACTTGTCCCACTTAGATGGCAACCTGACCGAACCCATGGCGTCCGAACCGCACCACTG 365
Qy 369 GCGGGAGAGACAGCGCTGCCCTCCGACCGGACAGTCCCTCCATGATCAGCGGCATCAG 428
Db 366 GCGGGAGAGACAGCGCTGCCCTCCGACCGGACAGTCCCTCCATGATCAGCGGCATCAG 425
Qy 429 ATCATGCGCCTCTACTCCATCGTGTGGTGGGGCTCTTCGGAAACTTCTCGGTGTCATG 488
Db 426 ATCATGCGCCTCTACTCCATCGTGTGGTGGGGCTCTTCGGAAACTTCTCGGTGTCATG 485
Qy 489 TATGTGATGTGAGATACACCAAGATGAAGATGCCACCAACATCTACATTTTCAACCTT 548
Db 486 TATGTGATGTGAGATACACCAAGATGAAGATGCCACCAACATCTACATTTTCAACCTT 545
Qy 549 GCTCTGGAGATGCTTAGCCACAGTACCTGCCCTTCCAGAGTGGATTAACCTAATG 608
Db 546 GCTCTGGAGATGCTTAGCCACAGTACCTGCCCTTCCAGAGTGGATTAACCTAATG 605
Qy 609 GGAACATGGCCATTTGGAACCATCTTGAAGATAGTGTCTCCATAGATTTACTATAAC 668
Db 606 GGAACATGGCCATTTGGAACCATCTTGAAGATAGTGTCTCCATAGATTTACTATAAC 665
Qy 669 ATGTTCACAGCATPATTACCCCTCTGCAACATGAGTGTGATGATGATGATGATGATG 728
Db 666 ATGTTCACAGCATPATTACCCCTCTGCAACATGAGTGTGATGATGATGATGATGATG 725
Qy 729 CACCTGTCAAGGCTTAGATTTCCGTACTCCCGAAATGCCAAATTTATCAATGTCTGC 788
Db 726 CACCTGTCAAGGCTTAGATTTCCGTACTCCCGAAATGCCAAATTTATCAATGTCTGC 785
Qy 789 AACTGGATCTCTCTCAGCCATTTGCTTCTCTGATGTTGATGTTGATGTTGATGTTGAT 848
Db 786 AACTGGATCTCTCTCAGCCATTTGCTTCTCTGATGTTGATGTTGATGTTGATGTTGAT 845
Qy 849 AGCAAGGTTCCATAGATTTGACACTAACATTTCTCATCAACCTGGTACTGGGAAAC 908
Db 846 AGCAAGGTTCCATAGATTTGACACTAACATTTCTCATCAACCTGGTACTGGGAAAC 905
Qy 909 CTCGTGAAGATCTGTGTTTTCACTTGGCTTTGATTTGATGAGTGTGATGATGATGATG 968
Db 906 CTCGTGAAGATCTGTGTTTTCACTTGGCTTTGATTTGATGAGTGTGATGATGATGATG 965
Qy 969 TGTCTAGGACTGATGATCTTGGCTTCAAGAGTGTCCGATGCTCTCTGGCTCCAAAGAA 1028
Db 966 TGTCTAGGACTGATGATCTTGGCTTCAAGAGTGTCCGATGCTCTCTGGCTCCAAAGAA 1025
Qy 1029 AAGGACAGGAATCTTTCGAAGGATCACAGGATGTTGTTGTTGTTGTTGTTGTTGTTGTT 1088
Db 1026 AAGGACAGGAATCTTTCGAAGGATCACAGGATGTTGTTGTTGTTGTTGTTGTTGTTGTT 1085
Qy 1089 GTCTGTGGAATCCCATTTCAATTTAAGTATTAAGCTTTGGTTTGAATCCCGAGAA 1148
Db 1086 GTCTGTGGAATCCCATTTCAATTTAAGTATTAAGCTTTGGTTTGAATCCCGAGAA 1145
Qy 1149 ACTACGTTCCAGATGTTTCTGGCACTTCTGCAATGCTCTAGGTTTACAAACAGCTGC 1208

Db 1146 ACTACGTTCCAGACTGTTTCTTGGCACTTCTGCAATGCTCTAGGTTACACAAACAGCTGC 1205
Qy 1209 CTCAACCCAGTCTCTTTATGCAATTTCTGGATGAAAACTTCAAAAGATGCTTTCAGAGAGTTC 1268
Db 1206 CTCAACCCAGTCTCTTTATGCAATTTCTGGATGAAAACTTCAAAAGATGCTTTCAGAGAGTTC 1265
Qy 1269 TGTATCCCAACCTCTTTCCAAACATTTGAGCAACAAAACTTCCAACCTGCTGAGAACTCT 1328
Db 1266 TGTATCCCAACCTCTTTCCAAACATTTGAGCAACAAAACTTCCAACCTGCTGAGAACTCT 1325
Qy 1329 AGAGACCAACCTCTCCAGCGGCAATACAGTGGATAGAACTAATCATCAGCTAGAAAACTCTG 1388
Db 1326 AGAGACCAACCTCTCCAGCGGCAATACAGTGGATAGAACTAATCATCAGCTAGAAAACTCTG 1385
Qy 1389 GAAGCAGAACTCTCTCGCTTGCCTTAACAGGGTCTCATGCAATTCGACCTTCCACCAAGC 1448
Db 1386 GAAGCAGAACTCTCTCGCTTGCCTTAACAGGGTCTCATGCAATTCGACCTTCCACCAAGC 1445
Qy 1449 TTAGAAGCCCAACATGATGTTGGAAGCAGGTGCTTCAAGAATGTTGTAAGGCTCTAATT 1508
Db 1446 TTAGAAGCCCAACATGATGTTGGAAGCAGGTGCTTCAAGAATGTTGTAAGGCTCTAATT 1505
Qy 1509 CTCTAGAAAGTGCCTTACTTTTAGGTCACTCAACCTCTTTCCTCTCTGGCCACTCTGCTC 1568
Db 1506 CTCTAGAAAGTGCCTTACTTTTAGGTCACTCAACCTCTTTCCTCTCTGGCCACTCTGCTC 1565
Qy 1569 TGCACATTAGAGGGACAGCCAAAGTAAGTGGAGCAATTTGGAAGGAAGGAATATACCAAC 1628
Db 1566 TGCACATTAGAGGGACAGCCAAAGTAAGTGGAGCAATTTGGAAGGAAGGAATATACCAAC 1625
Qy 1629 ACCGAGAGTCCAGTTTGTCAAGACACCCAGTGGAAACCAAAACCCATCGTGGTATGTA 1688
Db 1626 ACCGAGAGTCCAGTTTGTCAAGACACCCAGTGGAAACCAAAACCCATCGTGGTATGTA 1685
Qy 1689 ATTGAAGTCAATATAAAAGGTGACCTTCTGTCTGTGAAGATTTTATTTTCAAGCAATAT 1748
Db 1686 ATTGAAGTCAATATAAAAGGTGACCTTCTGTCTGTGAAGATTTTATTTTCAAGCAATAT 1745
Qy 1749 TTATGACCTCAACAAAGAGAACCATTTTGTAAAGTTTCAAGTTTCAAGTTTCAAGTTTCAAGTT 1808
Db 1746 TTATGACCTCAACAAAGAGAACCATTTTGTAAAGTTTCAAGTTTCAAGTTTCAAGTTTCAAGTT 1805
Qy 1809 AAATGTCTACCTCTGATCAAAAGCACCCTTGAATGGAAGGTCCGAGTCTTTTGTAGTGTGTTG 1868
Db 1806 AAATGTCTACCTCTGATCAAAAGCACCCTTGAATGGAAGGTCCGAGTCTTTTGTAGTG-TTTTG 1864
Qy 1869 CAAGGGAATGAATCCATTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTT 1928
Db 1865 CAAGGGAATGAATCCATTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTT 1924
Qy 1929 GGCTAAGGATCAATTTTACCTCCATTTTGTGTTTGTGTTTGTGTTTGTGTTTGTGTTTGTGTTT 1988
Db 1925 GGCTAAGGATCAATTTTACCTCCATTTTGTGTTTGTGTTTGTGTTTGTGTTTGTGTTTGTGTTT 1983
Qy 1989 CTCTTTTATCTAGTCTCCATTAATTTGCAAGGGAAGATTTAGCATGAAAGGTAATCTGAAAC 2048
Db 1984 CTCTTTTATCTAGTCTCCATTAATTTGCAAGGGAAGATTTAGCATGAAAGGTAATCTGAAAC 2043
Qy 2049 ACAGTCAATGTCTCANCTGTAGAAAGGTGATTTCTCATGCACTNCAATATCTTCCAAAGAG 2108
Db 2044 ACAGTCAATGTCTCAGCTGTAGAAAGGTGATTTCTCATGCACTGCAAAATCTTCCAAAGAG 2103
Qy 2109 TCATCATGGGGGATTTTTCATTTTAGGCTTTCAGTGGTTTGTTC 2154
Db 2104 TCATCATGGGGGATTTTTCATTTTAGGCTTTCAGTGGTTTGTTC 2149


```
/ APPLICANT: XU, Yuming, DUGGAN, Brendan M.;
/ APPLICANT: HONCHELL, Cynthia D.; KALLICK, Deborah A.;
/ APPLICANT: BAUGHN, Mariah R.; TANG, Y.Tom;
/ APPLICANT: YUE, Henry; BANDMAN, Olga;
/ APPLICANT: JONES, Karen Anne; BECHA, Shanya D.;
/ APPLICANT: TRAN, Uyen K.; AU-YOUNG, Janice K.;
/ APPLICANT: GRIFFIN, Jennifer A.; ZEBARADIAN, Yeganeh;
/ APPLICANT: LEE, Ernestine A.; ELLIOTT, Vicki S.;
/ APPLICANT: THANGAVELOU, Kavitha; RAMKUMAR, Jayalaxmi;
/ APPLICANT: LU, Yan; HAFALIA, April J.A.;
/ APPLICANT: CHAWLA, Navinder K.; ISON, Craig H.;
/ APPLICANT: THORNTON, Michael B.; SWARNAKAR, Anita;
/ APPLICANT: YANG, Junming; RICHARDSON, Thomas W.;
/ APPLICANT: EMERLING, Brooke M.; YAO, Monique G.;
/ APPLICANT: COCKS, Benjamin G.; SANJANWALA, Bharati;
/ APPLICANT: MASON, Patricia M.; GANDHI, Ameena R.;
/ APPLICANT: LI, Joana X.; FORSYTHE, Ian J.;
/ APPLICANT: GURURAJAN, Rajagopal; GIETZEN, Kimberly J.
/ TITLE OF INVENTION: RECEPTORS AND MEMBRANE-ASSOCIATED PROTEINS
/ FILE REFERENCE: PF-0992 USN
/ CURRENT APPLICATION NUMBER: US/10/477,714
/ CURRENT FILING DATE: 2003-11-14
/ PRIOR APPLICATION NUMBER: PCT/US02/15899
/ PRIOR FILING DATE: 2002-05-16
/ PRIOR APPLICATION NUMBER: 60/292,197
/ PRIOR FILING DATE: 2001-05-18
/ PRIOR APPLICATION NUMBER: US 60/297,012
/ PRIOR FILING DATE: 2001-06-08
/ PRIOR APPLICATION NUMBER: US 60/300,582
/ PRIOR FILING DATE: 2001-06-21
/ PRIOR APPLICATION NUMBER: US 60/300,495
/ PRIOR FILING DATE: 2001-06-22
/ PRIOR APPLICATION NUMBER: US 60/301,992
/ PRIOR FILING DATE: 2001-06-28
/ PRIOR APPLICATION NUMBER: US 60/340,542
/ PRIOR FILING DATE: 2001-12-14
/ NUMBER OF SEQ ID NOS: 52
/ SOFTWARE: PERL Program
/ SEQ ID NO 33
/ LENGTH: 2279
/ TYPE: DNA
/ ORGANISM: Homo sapiens
/ FEATURE:
/ NAME/KEY: misc feature
/ OTHER INFORMATION: Incyte ID No: 7580043CB1
US-10-477-714-33

Query Match          97.0%; Score 2097.8; DB 8; Length 2279;
Best Local Similarity 99.4%; Pred. No. 0;
Matches 2135; Conservative 0; Mismatches 9; Indels 3; Gaps 3;

QY      9  GGTATAGGCAGGAGAGATGTGATGCTCAGCTCGGTCCCTCCGCTCGAGCTGCTC 68
DB      1  GGGTATACGACGAGGAGATGTGATGCTCAGCTCGGTCCCTCCGCTCGAGCTC 60

QY     69  TCTGTCTCAGCCAGGACTGTTTCTGTAGAAACAGCAGGAGCTGTGGCAGCGGCGAAAG 128
DB     61  TCTGTCTCAGCCAGGACTGTTTCTGTAGAAACAGCAGGAGCTGTGGCAGCGGCGAAAG 120

QY    129  GAAGCGGCTGAGCGGCTTGGAAACCCGAAAGTCTCGGTGCTCTCGCTACCTCGCACAGC 188
DB    121  GAAGCGGCTGAGCGGCTTGGAAACCCGAAAGTCTCGGTGCTCTCGGTACCTCGCACAGC 180

QY    189  GGTGCCCGCGCGCGCTCAGTACCATGGACAGCAGCGCTGCCCGCCAGAAACGACCAAT 248
DB    181  GGTGCCCGCGCGCGCTCAGTACCATGGACAGCAGCGCTGCCCGCCAGAAACGACCAAT 240

QY    249  TGCACGTGATGCTTGGGCTACTCAAGTTGCTCCCGACGACCGCCCGGTTCTCGGTC 308
DB    241  TGCACGTGATGCTTGGGCTACTCAAGTTGCTCCCGACGACCGCCCGGTTCTCGGTC 300

QY    309  AACTGTGTCACATTAGATGCAACCTTGACCGACCCATCGGTCGGAACCGCAACCACTG 368
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1449 TTAAAGCCACCATTATGTATGGAAGCAGGTTGCTTCAAGATGTGTAGGAGGCTCTAATT 1508
1441 TTAAAGCCACCATTATGTATGGAAGCAGGTTGCTTCAAGATGTGTAGGAGGCTCTAATT 1500
1509 CTCTAGGAAAGTGTCTACTTTTATAGTTCATCCAACTCTTTCTCTCTGCGCACTCTGCTC 1568
1501 CTCTAGGAAAGTGTCTACTTTTATAGTTCATCCAACTCTTTCTCTCTGCGCACTCTGCTC 1560
1569 TGCACTATTAGGAGGACACGCAAAAGTAAAGTGGAGCATTTGGAAGGAAGAAATATACCAC 1628
1561 TGCACTATTAGGAGGACACGCAAAAGTAAAGTGGAGCATTTGGAAGGAAGAAATATACCAC 1619
1629 ACCGAGAGTCCAGTTTGTGCAAGACACCCAGTGGAAACCAAAACCCATCGTGGTATGTGA 1688
1620 ACCGAGAGTCCAGTTTGTGCAAGACACCCAGTGGAAACCAAAACCCATCGTGGTATGTGA 1679
1689 ATTGAAGTTCATCAAAAAGGTGACCTTTCTGTCTGTAAAGATTTTATTTTCAAGCAATAT 1748
1680 ATTGAAGTTCATCAAAAAGGTGACCTTTCTGTCTGTAAAGATTTTATTTTCAAGCAATAT 1739
1749 TTATGACCTCAACAAAGAAACCAATCTTTTGTAAAGTTCACCGTAGTAACACATAAAGT 1808
1740 TTATGACCTCAACAAAGAAACCAATCTTTTGTAAAGTTCACCGTAGTAACACATAAAGT 1799
1809 AATGCTACCTCTGATCAAGACACCTTGAATGGAAGTCCGAGTCTTTTATGTTTGTGTTTG 1868
1800 AATGCTACCTCTGATCAAGACACCTTGAATGGAAGTCCGAGTCTTTTATGTTTGTGTTTG 1858
1869 CAAGGAATGAATCAATTTCTATTTTATAGACTTTTAACTTTCAACTTTAAATTTAGCATCT 1928
1859 CAAGGAATGAATCAATTTCTATTTTATAGACTTTTAACTTTCAACTTTAAATTTAGCATCT 1918
1929 GGCTAAGGCATCATTTTCACTCTCAATTTTGTGTTTGTATGTTTAAAAAATAACAT 1988
1919 GGCTAAGGCATCATTTTCACTCTCAATTTTGTGTTTGTATGTTTAAAAAATAACAT 1977
1989 CTCTTTCATCTAGCTCCATTAATTCAGAGGAAGATAGCATGAAAGGTAATCTGAAAC 2048
1978 CTCTTTCATCTAGCTCCATTAATTCAGAGGAAGATAGCATGAAAGGTAATCTGAAAC 2037
2049 ACAGTCATGTCTCANTGTAGAAAGGTTGATTCTCATGCACTNCAAAATCTCCAAAGAG 2108
2038 ACAGTCATGTCTAGCTGTAGAAAGGTTGATTCTCATGCACTGCAATACTTCCAAAGAG 2097
2109 TCATCATGGGGGATTTTTCATTTTATAGCTTTTCAAGTGTGTTGTTTCT 2155
2098 TCATCATGGGGGATTTTTCATTTCTTAGCTTTTCAAGTGTGTTTCT 2144

RESULT 12
US-10-080-917-13
; Sequence 13, Application US/10080917
; Publication No. US20030054451A1
; GENERAL INFORMATION:
; APPLICANT: Cadet, Patrick
; APPLICANT: Stefano, George B.
; TITLE OF INVENTION: Opiate Receptors
; FILE REFERENCE: 09598-006001
; CURRENT APPLICATION NUMBER: US/10/080,917
; PRIOR FILING DATE: 2002-02-22
; PRIOR APPLICATION NUMBER: US 60/270,479
; PRIOR FILING DATE: 2001-02-22
; PRIOR APPLICATION NUMBER: US 60/336,677
; PRIOR FILING DATE: 2001-12-05
; NUMBER OF SEQ ID NOS: 28
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 13
; LENGTH: 1473
; TYPE: DNA
; ORGANISM: Homo Sapiens
US-10-080-917-13

Query Match 62.5%; Score 1351.8; DB 5; Length 1473;
Best Local Similarity 99.1%; Pred. No. 0;
Matches 1359; Conservative 0; Mismatches 12; Indels 0; Gaps 0;
17 GCAGAGGAGAAATGTAGATGCTCAGCTCGGTCCCTCCGCTGACGCTCCTCTCTGTCTC 76
1 GCAGAGGAGAAATGTAGATGCTCAGCTCGGTCCCTCCGCTGACGCTCCTCTCTGTCTC 60
77 AGCCAGGACTGGTTTCTGTAAAGAAACAGCAGGAGCTGTGGCAGCGGCGAAAGAAAGCGG 136
61 AGCCAGGACTGGTTTCTGTAAAGAAACAGCAGGAGCTGTGGCAGCGGCGAAAGAAAGCGG 120
137 TGAGGCGCTTGGAAACCCGAAAGTCTCGGTGCTCTCTGGCTACCTCGCAGAGCGGTGCCCG 196
121 TGAGGCGCTTGGAAACCCGAAAGTCTCGGTGCTCTCTGGCTACCTCGCAGAGCGGTGCCCG 180
197 CCGGCGCTCAGTACCATGGACAGCAGCGTCCCGCAGCAGCGGCTGCCCCACGACGCCAGCAATTTGCACTGA 256
181 CCGGCGCTCAGTACCATGGACAGCAGCGTCCCGCAGCAGCGGCTGCCCCACGACGCCAGCAATTTGCACTGA 240
257 TGCCTTTGGGCTACTCAAGTTGCTCCCGCAGCAGCGGCTGCCCCACGACGCCAGCAATTTGCTGTC 316
241 TGCCTTTGGGCTACTCAAGTTGCTCCCGCAGCAGCGGCTGCCCCACGACGCCAGCAATTTGCTGTC 300
317 CCACTTAGATGGCAACCTGACCGACCATGCGGTCCGAAACCGCAACCTGGCGGGGAG 376
301 CCACTTAGATGGGAGCCTGTGCGACCATGCGGTCCGAAACCGCAACCTGGCGGGGAG 360
377 AGACAGCCTGTGCGCTCCGACCGGCGAGTCCCTCCATGATCAGCGCCATCAGCATGTCG 436
361 AGACAGCCTGTGCGCTCCGACCGGCGAGTCCCTCCATGATCAGCGCCATCAGCATGTCG 420
437 CCTCTACTCATCTGTGCGTGGGCTCTTTGGAAACTTCTCTGCTCATGTATGTGAT 496
421 CCTCTACTCATCTGTGCGTGGGCTCTTTGGAAACTTCTCTGCTCATGTATGTGAT 480
497 TGTGAGATACACAAAGATGAAGATGCGCAACATCTACATTTTCAACCTTGTCTGTCG 556
481 TGTGAGATACACAAAGATGAAGATGCGCAACATCTACATTTTCAACCTTGTCTGTCG 540
557 AGATGCTTAGCCACCAAGTACCTTCCAGAGTGTGAAATTTACCTAATTTGGAAACATG 616
541 AGATGCTTAGCCACCAAGTACCTTCCAGAGTGTGAAATTTACCTAATTTGGAAACATG 600
617 GCCATTTGGAACCATCTCTTCAAGATAGTGTCTCCATAGATTTACTATTAACATGTTTCC 676
601 GCCATTTGGAACCATCTCTTCAAGATAGTGTCTCCATAGATTTACTATTAACATGTTTCC 660
677 CAGCATATTCACCCCTCTGCAACCATGATGTTGATGATATGATGATGATGATGATGATG 736
661 CAGCATATTCACCCCTCTGCAACCATGATGTTGATGATATGATGATGATGATGATGATG 720
737 CAAGGCTTAGATTTTGGTACTCCCGAAATGCGAAATTTATCAATCTCTGCAACTGGAT 796
721 CAAGGCTTAGATTTTGGTACTCCCGAAATGCGAAATTTATCAATCTCTGCAACTGGAT 780
797 CCTCTCTTCAAGCATTGCTCTCTGTAATGTTTCAATGTTTCAATGTTTCAATGTTTCA 856
781 CCTCTCTTCAAGCATTGCTCTCTGTAATGTTTCAATGTTTCAATGTTTCAATGTTTCA 840
857 TTCCATAGATTTGATACATAACATTTCTCTCATCCAACTGTTGATGTTGTTGTTGTTG 916
841 TTCCATAGATTTGATACATAACATTTCTCTCATCCAACTGTTGATGTTGTTGTTGTTG 900
917 GATCTGTTTGTATCTTTCGCTTCAATTTGCGAGTCTCTATCATTTACCGTCTGCTATGG 976
901 GATCTGTTTGTATCTTTCGCTTCAATTTGCGAGTCTCTATCATTTACCGTCTGCTATGG 960
977 ACTGATGATCTTGGCGCTCAAGAGTGTCCCGATGCTCTCTGGCTCCAAAGAAAGGACAG 1036
961 ACTGATGATCTTGGCGCTCAAGAGTGTCCCGATGCTCTCTGGCTCCAAAGAAAGGACAG 1020
1037 GAATCTTTCGAAGGATCAACGAGGATGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTG 1096

Sequence 544, Application US/09826509
Publication No. US20030204073A1
GENERAL INFORMATION:
APPLICANT: Lehmann-Bruinsma, Karin
APPLICANT: Liaw, Chen W.
APPLICANT: Lin, I-Lin
TITLE OF INVENTION: No. US20030204073A1-Endogenous, Constitutively Activated Known G
FILE REFERENCE: AREN-207
CURRENT APPLICATION NUMBER: US/09/826.509
CURRENT FILING DATE: 2001-04-05
PRIORITY FILING DATE: 2000-04-07
PRIORITY FILING DATE: 1998-10-13
NUMBER OF SEQ ID NOS: 589
SOFTWARE: PatentIn Version 2.1
SEQ ID NO 544
LENGTH: 1203
TYPE: DNA
ORGANISM: Homo sapiens
US-09-826-509-544

Query Match 55.4%; Score 1198.2; DB 3; Length 1203;
Best Local Similarity 99.8%; Pred. No. 0;
Matches 1200; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY	213	ATGGACAGCAGCGCTGCCCCACGAAACGCCAGCAATTCGACCTGATGCTTGGCGTACTCA	272
DB	1	ATGGACAGCAGCGCTGCCCCACGAAACGCCAGCAATTCGACCTGATGCTTGGCGTACTCA	60
QY	273	AGTTGCTCCCCAGCACCCAGAGCCCGGTTCTCTGGGTCAACTTGTCCCACTTAGATGGCAAC	332
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QY	333	CTGACCGAACCCATGCGGTCCGAAACCGCAACCACTCTGGGGGGGAGAGACGCTGTGCCCT	392
DB	121	CTGTCCGACCCATGCGGTCCGAAACCGCAACCACTCTGGGGGGGAGAGACGCTGTGCCCT	180
QY	393	CCGACCGGAGTCCCTCCATGATCAGCGGCATCAGATCATGGGCCCTCTACTCCATCGTG	452
DB	181	CCGACCGGAGTCCCTCCATGATCAGCGGCATCAGATCATGGGCCCTCTACTCCATCGTG	240
QY	453	TGCGTGTGGGGCTTTCGGAAACCTTCTGGGTCACTGATGTGATTTGTGAGATACACCAAG	512
DB	241	TGCGTGTGGGGCTTTCGGAAACCTTCTGGGTCACTGATGTGATTTGTGAGATACACCAAG	300
QY	513	ATGAAGACTGCCACCAACATCTACATTTTCAACCTTGTCTGGCAGATGCCTTAGCCACC	572
DB	301	ATGAAGACTGCCACCAACATCTACATTTTCAACCTTGTCTGGCAGATGCCTTAGCCACC	360
QY	573	AGTACCTGCCCTTCCAGAGTGTGAATTAACCTTAATGGGAACATGGCCATTTGGAAACCATC	632
DB	361	AGTACCTGCCCTTCCAGAGTGTGAATTAACCTTAATGGGAACATGGCCATTTGGAAACCATC	420
QY	633	CTTTGCAAGATAGTATCTCCATAGATTACTATAACATGTTCCACGAGCATATTCACCCCTC	692
DB	421	CTTTGCAAGATAGTATCTCCATAGATTACTATAACATGTTCCACGAGCATATTCACCCCTC	480
QY	693	TGCACCATAGTGTGTGATCGATACATTCGAGTCTGCCACCCCTGTCAAGGCCCTTAGATTTTC	752
DB	481	TGCACCATAGTGTGTGATCGATACATTCGAGTCTGCCACCCCTGTCAAGGCCCTTAGATTTTC	540
QY	753	CGTACTCCCGAAATGCCAAATTAATCAATGTCGAACTGGATCCTCTCTTCAGGCATT	812
DB	541	CGTACTCCCGAAATGCCAAATTAATCAATGTCGAACTGGATCCTCTCTTCAGGCATT	600
QY	813	GGTCTTCTGTAAATGTTTCATGGCTACAAATAACAGCAAGGTTCCATAGATTGTACA	872
DB	601	GGTCTTCTGTAAATGTTTCATGGCTACAAATAACAGCAAGGTTCCATAGATTGTACA	960
QY	873	CTAACATTTCTCTATCCAACTGGTACTGGGAAAAACCTCGTGAAAGATCTGTGTTTTCATC	932

QY	273	AGTTGCTCCCGACGCCAGCCCGGTTCTGGTCAACTTGTGCCACTTAGATGCAAC	332
Db	61	AGTTGCTCCCGACGCCAGCCCGGTTCTGGTCAACTTGTGCCACTTAGATGCAAC	120
QY	333	CTGACCGACCCATGCGGTCCGAACCGCACCACTGGGCGGAGAGACGCTGTGCCCT	392
Db	121	CTGTCCGACCCATGCGGTCCGAACCGCACCACTGGGCGGAGAGACGCTGTGCCCT	180
QY	393	CCGACCGGAGTCCCTCCATGATCAGGCGCATCAGCATCATGGCCCTCTACTCCATCGTG	452
Db	181	CCGACCGGAGTCCCTCCATGATCAGGCGCATCAGCATCATGGCCCTCTACTCCATCGTG	240
QY	453	TGGTGGTGGGGCTCTTCGGAACTTCTGGTCACTGTATGTGATGTGATACACCAAG	512
Db	241	TGGTGGTGGGGCTCTTCGGAACTTCTGGTCACTGTATGTGATGTGATACACCAAG	300
QY	513	ATGAAGACTGCCACCAACATCTACATTTTCAACCTTGTCTGCGAGATGCCCTTAGCCAC	572
Db	301	ATGAAGACTGCCACCAACATCTACATTTTCAACCTTGTCTGCGAGATGCCCTTAGCCAC	360
QY	573	AGTACCCTCGCCCTTCAGAGTGTGAATTACCTAATGGGAACATGGCCATTTGGAAACCATC	632
Db	361	AGTACCCTCGCCCTTCAGAGTGTGAATTACCTAATGGGAACATGGCCATTTGGAAACCATC	420
QY	633	CTTTGCAAGATAGTGTCTCCATAGATTACTATTAACATGTTACACGAGATATTCACCCCTC	692
Db	421	CTTTGCAAGATAGTGTCTCCATAGATTACTATTAACATGTTACACGAGATATTCACCCCTC	480
QY	693	TGCACCATGAGTGTGATCGATACATTTGCACTGCGACCTGTCAAGGCCCTTAGATTTTC	752
Db	481	TGCACCATGAGTGTGATCGATACATTTGCACTGCGACCTGTCAAGGCCCTTAGATTTTC	540
QY	753	CGTACTCCCGAAATGCCAAATTTAATGTTGCAACTGGATCCTCTCTTCAGCCATT	812
Db	541	CGTACTCCCGAAATGCCAAATTTAATGTTGCAACTGGATCCTCTCTTCAGCCATT	600
QY	813	GGTCTTCTGTAATGTTGATGGCTACAAACAAATACAGGCAAGTTCCATAGATTGTACA	872
Db	601	GGTCTTCTGTAATGTTGATGGCTACAAACAAATACAGGCAAGTTCCATAGATTGTACA	660
QY	873	CTAACATTTCTCATCCAACTGGTACTGGGAAACCTCGTGAAGATCTGTGTTTTCATC	932
Db	661	CTAACATTTCTCATCCAACTGGTACTGGGAAACCTCGTGAAGATCTGTGTTTTCATC	720
QY	933	TTGCGCTTCATTATGCCAGTGTCTCATATTACCGTGTGCTATGGACTGATGATCTTGGCG	992
Db	721	TTGCGCTTCATTATGCCAGTGTCTCATATTACCGTGTGCTATGGACTGATGATCTTGGCG	780
QY	993	CTCAAGAGTGTCCGATGCTCTCGGCTCCAAAGAAAGGACAGGAATCTTCGAAGGATC	1052
Db	781	CTCAAGAGTGTCCGATGCTCTCGGCTCCAAAGAAAGGACAGGAATCTTCGAAGGATC	840
QY	1053	ACCAGGATGGTGTGGTGGTGGTGTTCATCGTCTGTGGACTCCCATTCACATT	1112
Db	841	ACCAGGATGGTGTGGTGGTGGTGTTCATCGTCTGTGGACTCCCATTCACATT	900
QY	1113	TACGTCAATCAATAAGCCTTGGTTACAATCCAGAAACTACGTTCCAGACTGTGTTCTTGG	1172
Db	901	TACGTCAATCAATAAGCCTTGGTTACAATCCAGAAACTACGTTCCAGACTGTGTTCTTGG	960
QY	1173	CACCTTCGATGCTCTAGGTTACAAACAGCTGCTCAACCCAGTCTTTATGCAATTT	1232
Db	961	CACCTTCGATGCTCTAGGTTACAAACAGCTGCTCAACCCAGTCTTTATGCAATTT	1020
QY	1233	CTGGATGAAACCTTCAACAGATCTTCAGAGATCTGTATCCCAACCTCTTCCAAACATT	1292
Db	1021	CTGGATGAAACCTTCAACAGATCTTCAGAGATCTGTATCCCAACCTCTTCCAAACATT	1080
QY	1293	GAGCAACAAACCTCCAATTCGAATTCGTGAGAACACTAGAGACCAACCCCTCCACGGCCAAT	1352
Db	1081	GAGCAACAAACCTCCAATTCGAATTCGTGAGAACACTAGAGACCAACCCCTCCACGGCCAAT	1140

QY	1353	ACAGTGGATAGAACTAATCATCAGCTAGAAAATCTGGAAGCAGAAAATGCTCCGTTGCC	1412
Db	1141	ACAGTGGATAGAACTAATCATCAGCTAGAAAATCTGGAAGCAGAAAATGCTCCGTTGCC	1200
QY	1413	TAA 1415	
Db	1201	TAA 1203	

Search completed: January 9, 2006, 15:16:42
Job time : 1714.52 secs

Result No.	Score	Query		DB	ID	Description
		Match	Length			
1	2158.4	99.8	2162	7	US-11-127-877-18	Sequence 18, Appl
2	453	21.0	1423	7	US-11-136-527-2066	Sequence 2066, Ap
3	362.6	16.8	2955	7	US-11-136-527-2954	Sequence 2954, Ap
4	233	10.8	8372	7	US-11-136-527-684	Sequence 684, App
5	197.8	9.1	2116	7	US-11-136-527-3819	Sequence 3819, Ap
C 6	194.6	9.0	1685	6	US-10-750-185-36071	Sequence 36071, A
C 7	194.6	9.0	1685	6	US-10-750-623-36071	Sequence 36071, A
8	187.6	8.7	1238	6	US-10-995-561-321	Sequence 321, App
9	187.6	8.7	1498	6	US-10-995-561-320	Sequence 320, App
10	187.6	8.7	86131	6	US-10-995-561-13298	Sequence 13298, A
11	177	8.2	3635	7	US-11-136-527-2101	Sequence 2101, Ap
12	172.6	8.0	1384	7	US-11-136-527-2159	Sequence 2159, Ap
13	158.8	7.3	1560	7	US-11-136-527-3742	Sequence 3742, Ap
14	158.8	7.3	1865	6	US-10-533-355-9	Sequence 9, Appli
C 15	151.8	7.0	856	6	US-10-750-185-62128	Sequence 62128, A
C 16	151.8	7.0	856	6	US-10-750-623-62128	Sequence 62128, A
C 17	141.4	6.5	1224	6	US-10-750-185-40492	Sequence 40492, A
C 18	141.4	6.5	1224	6	US-10-750-623-40492	Sequence 40492, A
19	125.6	5.8	600	7	US-11-136-527-6162	Sequence 6162, Ap
20	112.4	5.2	3985	7	US-11-136-527-3404	Sequence 3404, Ap
21	93.4	4.3	3219	7	US-11-136-527-4059	Sequence 4059, Ap
22	93.4	4.3	3295	7	US-11-136-527-3736	Sequence 3736, Ap
C 23	92.6	4.3	7706	6	US-10-750-185-32790	Sequence 32790, A

QY 121 GCGAAAGGAGCGCTGAGCGCTTGGAAACCGAAAGTCTCGGTGCTCCTGGCTACT 180
DB 121 GCGAAAGGAGCGCTGAGCGCTTGGAAACCGAAAGTCTCGGTGCTCCTGGCTACT 180
QY 181 CGCAGAGCGCTCGCGCGCGCGCTGAGTACCATGAGCAGCAGCGCTGCCCCCAGAAAG 240
DB 181 CGCAGAGCGCTCGCGCGCGCGCTGAGTACCATGAGCAGCAGCGCTGCCCCCAGAAAG 240
QY 241 CCAGCAATTGCACTGATGCTTGGCGTACTCAAGTTGCTCCAGAGCCAGCGCGGTT 300
DB 241 CCAGCAATTGCACTGATGCTTGGCGTACTCAAGTTGCTCCAGAGCCAGCGCGGTT 300
QY 301 CTTGGGTCAACTTGTCCCACTTAGATGGAACCTGACAGCCATGCGGTCCGAACCGCA 360
DB 301 CTTGGGTCAACTTGTCCCACTTAGATGGAACCTGTCGACCATGCGGTCCGAACCGCA 360
QY 361 CCAACTGGCGGAGAGACAGCTGTGCCCTCCAGACGGCAGTCCCTCCATGATCAAGG 420
DB 361 CCAACTGGCGGAGAGACAGCTGTGCCCTCCAGACGGCAGTCCCTCCATGATCAAGG 420
QY 421 CCATCAAGTATGCGCCCTCTACTCCATGCTGCGTGGTGGGCTCTTCGAAACTTCC 480
DB 421 CCATCAAGTATGCGCCCTCTACTCCATGCTGCGTGGTGGGCTCTTCGAAACTTCC 480
QY 481 TGGTCAATGATGATGTTGATGATACCAAGATGAGACTGCCACCAACATCACTATT 540
DB 481 TGGTCAATGATGATGTTGATGATACCAAGATGAGACTGCCACCAACATCACTATT 540
QY 541 TCAACTCTGCTCTGGCAGATGCTTAGCCACCAAGTACCTGCCCTTCAGAGTGTGAATT 600
DB 541 TCAACTCTGCTCTGGCAGATGCTTAGCCACCAAGTACCTGCCCTTCAGAGTGTGAATT 600
QY 601 ACCTAATGGAAACATGGCCATTGGAAACCATCTCTTGGCAAGATGATGATCTCATAGATT 660
DB 601 ACCTAATGGAAACATGGCCATTGGAAACCATCTCTTGGCAAGATGATGATCTCATAGATT 660
QY 661 ACTATAACATGTTTACAGCATATTCACCTCTGACCATGATGTTGATCGATACATTG 720
DB 661 ACTATAACATGTTTACAGCATATTCACCTCTGACCATGATGTTGATCGATACATTG 720
QY 721 CAGTCTGCCACCTGTCAGGCGCTAGATTTCGGTACTCCCGAAATGCCAAATTTATCA 780
DB 721 CAGTCTGCCACCTGTCAGGCGCTAGATTTCGGTACTCCCGAAATGCCAAATTTATCA 780
QY 781 ATGCTGCAACTGGATCTCTCTTCAGCCATTGGTCTTCTGTAATGTTTCATGGCTACAA 840
DB 781 ATGCTGCAACTGGATCTCTCTTCAGCCATTGGTCTTCTGTAATGTTTCATGGCTACAA 840
QY 841 CAAATAACAGGCAAGGTTCCATAGATTGTACACTAACATTCTCATCCAACTGGTACT 900
DB 841 CAAATAACAGGCAAGGTTCCATAGATTGTACACTAACATTCTCATCCAACTGGTACT 900
QY 901 GGGAAACCTCGTGAAGATCTGTGTTTTCATCTTCGCTTCATTTATGCGCAGTCTCATCA 960
DB 901 GGGAAACCTCGTGAAGATCTGTGTTTTCATCTTCGCTTCATTTATGCGCAGTCTCATCA 960
QY 961 TTACCGTGTCTATGAGCTGATGATCTTGGCGCTCAAGAGTGTCCGATGCTCTCTGGCT 1020
DB 961 TTACCGTGTCTATGAGCTGATGATCTTGGCGCTCAAGAGTGTCCGATGCTCTCTGGCT 1020
QY 1021 CCAAGAAAGGACAGGATCTTCGAAGGATCAGCAGGATGGTGTGGTGGTGGCTG 1080
DB 1021 CCAAGAAAGGACAGGATCTTCGAAGGATCAGCAGGATGGTGTGGTGGTGGCTG 1080
QY 1081 TGTTCATGCTGCTGGACTCCCATTCACATTTACGTCATCATTTAAAGCCTTGGTTACAA 1140
DB 1081 TGTTCATGCTGCTGGACTCCCATTCACATTTACGTCATCATTTAAAGCCTTGGTTACAA 1140
QY 1141 TCCAGAAACTACGTTCCAGACTGTTTCTTGGCACTTCTGCAATGCTCTAGGTTACAA 1200
DB 1141 TCCAGAAACTACGTTCCAGACTGTTTCTTGGCACTTCTGCAATGCTCTAGGTTACAA 1200
QY 1201 ACAGCTGCCTCAACCCAGTCTTTATGCACTTTCTGGATGAAACTTCAAAACGATGCTCA 1260

DB 1201 ACAGCTGCCTCAACCCAGTCTTTATGCACTTTCTGGATGAAAACTTCAAAACGATGCTCA 1260
QY 1261 GAGAGTCTGTATCTCCAAACCTCTTCCAAACATTTAGCAACAAACTCCCACTCGAATTCGT 1320
DB 1261 GAGAGTCTGTATCTCCAAACCTCTTCCAAACATTTAGCAACAAACTCCCACTCGAATTCGT 1320
QY 1321 AGAACACTAGAGACCCACCTCCACGGCAATACAGTGGATAGAACTAATCATCAAGCTAG 1380
DB 1321 AGAACACTAGAGACCCACCTCCACGGCAATACAGTGGATAGAACTAATCATCAAGCTAG 1380
QY 1381 AAAATCTCGAAGCAGAAACTGCTCGTGTGCCCTTAAACAGGCTCTCATGCCATTTCCGACCTT 1440
DB 1381 AAAATCTCGAAGCAGAAACTGCTCGTGTGCCCTTAAACAGGCTCTCATGCCATTTCCGACCTT 1440
QY 1441 CACCAAGCTTAGAAGCCACCATGATGTAAGGAGAGGTTGCTTCAAGATGTTAGGAGG 1500
DB 1441 CACCAAGCTTAGAAGCCACCATGATGTAAGGAGAGGTTGCTTCAAGATGTTAGGAGG 1500
QY 1501 CTCTAATTTCTCTAGGAAGTGCCTACTTTTAGGTCTATCCAACTCTTTCTCTCTGGCCA 1560
DB 1501 CTCTAATTTCTCTAGGAAGTGCCTACTTTTAGGTCTATCCAACTCTTTCTCTCTGGCCA 1560
QY 1561 CTCTGCTCTGCACTATTAGAGGACAGCCAAAGTAAAGTGGAGCATTTGGAAGGAAAGGAA 1620
DB 1561 CTCTGCTCTGCACTATTAGAGGACAGCCAAAGTAAAGTGGAGCATTTGGAAGGAAAGGAA 1620
QY 1621 TATACACACCGAGAGTCCAGTTTGTGCAAGACACCCAGTGGAAACCAACCCATCTGTG 1680
DB 1621 TATACACACCGAGAGTCCAGTTTGTGCAAGACACCCAGTGGAAACCAACCCATCTGTG 1680
QY 1681 GTATGTAATTTGAAGTCATATAAAGGTGACCTTCTGTCTGTAAGATTTTATTTTCAA 1740
DB 1681 GTATGTAATTTGAAGTCATATAAAGGTGACCTTCTGTCTGTAAGATTTTATTTCAA 1740
QY 1741 GCAAAATTTTATGACCTCAACAAAGAAAGCAATCTTTTGTAAAGTTCACCGTAGTAACA 1800
DB 1741 GCAAAATTTTATGACCTCAACAAAGAAAGCAATCTTTTGTAAAGTTCACCGTAGTAACA 1800
QY 1801 CATAAGTAAATGCTTACCTCTGATCAAAAGCACCTTGAATGGAGGTCGGAGTCTTTTAG 1860
DB 1801 CATAAGTAAATGCTTACCTCTGATCAAAAGCACCTTGAATGGAGGTCGGAGTCTTTTAG 1860
QY 1861 TGTTTTTCCAGGGAATGAATCCATTTTCTATTTTATAGACTTTTAACTTCAACTTAAAT 1920
DB 1861 TGTTTTTCCAGGGAATGAATCCATTTTCTATTTTATAGACTTTTAACTTCAACTTAAAT 1920
QY 1921 TAGCATCTGGCTAAGGCATCATTTTCACTCCATTTCTTGGTTTTTGTATTTGTTTTAAAA 1980
DB 1921 TAGCATCTGGCTAAGGCATCATTTTCACTCCATTTCTTGGTTTTTGTATTTGTTTTAAAA 1980
QY 1981 AATAACATCTCTTTTCACTTAGCTCATTAATTCGAAGGAGAGATTAGCATGAAGGTAA 2040
DB 1981 AATAACATCTCTTTTCACTTAGCTCATTAATTCGAAGGAGAGATTAGCATGAAGGTAA 2040
QY 2041 TCTGAAACACAGTGTGTCACTGTCANCTGTAGAAAGGTTGATTTCTATGCACTNCAATCTT 2100
DB 2041 TCTGAAACACAGTGTGTCACTGTCANCTGTAGAAAGGTTGATTTCTATGCACTNCAATCTT 2100
QY 2101 CCAAGAGCTCATCATGGGGATTTTTCATTTCTTAGGCTTTCAGTGGTTTTTCTCTGGAAT 2160
DB 2101 CCAAGAGCTCATCATGGGGATTTTTCATTTCTTAGGCTTTCAGTGGTTTTTCTCTGGAAT 2160
QY 2161 TC 2162
DB 2161 TC 2162

RESULT 2

US-11-136-527-2066
; Sequence 2066, Application US/11136527
; Publication No. US20050287570A1
; GENERAL INFORMATION:

QY 964 CCGTGTGCTATGAGTATGATCTTTCGCGCTCAAGAGTGTCCGATGCTCTCTGCTCCA 1023
DB 869 CTGTCTGTACAGCCTCATGATTTGACGACTTCGTGTGTCTGCTCTTCCTTTCAGGCTCCC 928
QY 1024 AAGAAAGACAGGAATCTTCAAGGATCACAGGATGCTGTGTGTGTGTGTGTGTGTGTGT 1083
DB 929 GGGAGNAGACCGAACTTCGGCGTATCACTCGACTGTGTGTGTGTGTGTGTGTGTGTGT 988
QY 1084 TCATCGTCTGTGGAATCCCATTTCAACATTTACGTATCATATAAAGCCTTGGTTACAATCC 1143
DB 989 TTGTGGCTGTGTGAGCGCTGTGAGGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTG 1048
QY 1144 CAGAACTAGTCTCCAGACTGTTTCTTGGACATTTCTGCAATTTCTAGTGTACACAAACA 1203
DB 1049 CAGGTAGTGAGACTGCGATTTGCCATCTCGCGCTTCTGCACGCCCTGGGCTATGTCAACA 1108
QY 1204 GCTGCTCAACCCAGTCTCTTATGCAATTTCTGATGAAATCTTCAACGATGCTTCAGAG 1263
DB 1109 GTTGTCTCAATCCATTTCTATGCTTCTTGTGATGAGAACTTCAAGGCTGTCTTAGNA 1168
QY 1264 AGTTCTGTATCCCACTCTTCCAAACATTTGAGCAACAACTCCACTCGAATTCG 1318
DB 1169 AGTTCTGTGTGCTTTCATCCCTGCACCGGAGATGCAAGTTTCTGATCGTGTGCG 1223

RESULT 4

US-11-136-527-684
; Sequence 684, Application US/11136527
; Publication No. US20050287570A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William M
; TITLE OF INVENTION: Probe Arrays For Expression Profiling of Rat Genes
; FILE REFERENCE: 031896-041000 (AM101086)
; CURRENT APPLICATION NUMBER: US/11/136,527
; CURRENT FILING DATE: 2005-05-25
; PRIOR APPLICATION NUMBER: US 60/574,294
; PRIOR FILING DATE: 2005-05-26
; NUMBER OF SEQ ID NOS: 362830
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 684
; LENGTH: 8372
; TYPE: DNA
; ORGANISM: Rattus norvegicus
US-11-136-527-684

Query Match 10.8%; Score 233; DB 7; Length 8372;
Best Local Similarity 56.4%; Pred. No. 1.3e-59;
Matches 513; Conservative 0; Mismatches 315; Indels 81; Gaps 1;
QY 491 TGTGATTTGTCAGATACCAAGATGAAGCTGCCAACATCTACATTTTCAACCTTGC 550
DB 5100 TGTCTCTACAGGCACCAAGATGAAGACAGCTACCAATTTACATATTTAATCTGCG 5159
QY 551 TCTGGCAGATGCTTACCAACAGTACCTTCCCTTCCAGAGTGTGAATTAATCTAATGG 610
DB 5160 ACTGGCTGATACCTGTCTTGTAACTGTCCCTTCCAGGCGACAGACATCTACTGGG 5219
QY 611 AACATGCCATTTTGAACCATCTTTGCAAGATGATGATCTCCATAGATTTACTATAACAT 670
DB 5220 CTTCGTGCCATTTTGGAAATGCACTCTGGAAGACTGTCATGCTATCGACTACTACAACT 5279
QY 671 GTTCACAGCATATTCACCTCTGCAACATGATGATGATGATGATGATGATGATGATGATG 730
DB 5280 GTTTACAGCATTCTTACTCTGACCGCATGAGCGTAGACCGCTATGTGCTATCTGCCA 5339
QY 731 CCTGTCAAGCCCTTAGATTTCCGTACTCCCGAATGCAAAATTAATCAATGTCTGCA 790
DB 5340 CCTATCCGTGCGCTTGTATTTCCGACATCCAGCAAGCCCGAGGCTGTGTTAATGTGCCAT 5399
QY 791 CTGGATCTCTCTTACAGCATTGCTTCTGTAATGTTTCATGGCTTACCAACAAA----- 845
DB 5400 ATGGGCGCTTGTGATGTTGTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTG 5459

QY 846 ----- 845
DB 5460 AGATGAAGGTCAAGTGGGTGCTCTCTCCCTGACATCATAGTTTCCCATGGTCTTGTGCTG 5519
QY 846 -----TACAGGCAAGTTTCATAGATTTGATACACATAAATTTCTCTCATCC 889
DB 5520 GTCCCTCTGACCCCATTTTCTCTCTGACAGATCGAGTGCCTGGTGGAGATCCCTGCCCC 5579
QY 890 AACCTGGTACTGGGAAAACTCGTGAAGATCTGTGTTTTCATCTTTCGGCTTCATTAATGCC 949
DB 5580 TCAGGACTATTGGGGCCCTGATTCGCCATCTGCACTCTCTCTTTTCTTCTTCTCATATCC 5639
QY 950 AGTGTCTATCATTAACCTGTGTATGAGTATGATCTTGGCCTCAAGAGTGTCCGAT 1009
DB 5640 TGTGTGTATCATCTCTGTCTGCTCAGCCTCATGATTCGAGACTTCGTGGTGTCCGTCT 5699
QY 1010 GCTCTCTGGCTCCAAAGAAAGGACAGGAATCTTCAAGAGGATCAACAGGATGCTGTGCT 1069
DB 5700 GCTTTCAGGCTCCCGGAGAGGACCGAAACCTGCGGCTATCACTCGACTGTGTGCTGT 5759
QY 1070 GTGTGTGCTGTGTTCATGCTGTGTGACTCCCAATTCACATTTACGTGATCATTAAGC 1129
DB 5760 AGTGTGTGCTGT 5819
QY 1130 CTGTGTACAAATCCAGAAACTACGTTCCAGACTGTTTCTTGGCACTTCTGCAATGCTCT 1189
DB 5820 ACTGGTGTTCAGCCAGGTAGTGAGACTGCAATTCCTGCGCTTCTGACAGCCCT 5879
QY 1190 AGTTTACAAACAGCTGCTCAACCCAGTCTCTTATGATTTCTGGATGAAATCTCAA 1249
DB 5880 GGGCTATGTCAACAGTTGTCTCAATCCCATCTCTATGCTTCTTGGATGAGAACTTCAA 5939
QY 1250 ACGATGCTTCAGAGATTTCTGTATCCCAACCTTTCCAACATGAGCAACAAACTCCAC 1309
DB 5940 GSCCTGCTTTAGAAAGTTCTGTGTCTTCATCCCTGACCGGAGATGACAGGTTTCTGA 5999
QY 1310 TCGAATTCG 1318
DB 6000 TCGTGTGCG 6008

RESULT 5

US-11-136-527-3819
; Sequence 3819, Application US/11136527
; Publication No. US20050287570A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William M
; TITLE OF INVENTION: Probe Arrays For Expression Profiling of Rat Genes
; FILE REFERENCE: 031896-041000 (AM101086)
; CURRENT APPLICATION NUMBER: US/11/136,527
; CURRENT FILING DATE: 2005-05-25
; PRIOR APPLICATION NUMBER: US 60/574,294
; PRIOR FILING DATE: 2005-05-26
; NUMBER OF SEQ ID NOS: 362830
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 3819
; LENGTH: 2116
; TYPE: DNA
; ORGANISM: Rattus norvegicus
US-11-136-527-3819

Query Match 9.1%; Score 197.8; DB 7; Length 2116;
Best Local Similarity 53.2%; Pred. No. 2.5e-49;
Matches 443; Conservative 0; Mismatches 387; Indels 3; Gaps 1;
QY 430 TCATGGCCTCTACTCCATCGTGTGCTGGTGGGCTCTTCGAAACTTCTCTGTCATCT 489
DB 504 TCACGTTTCTATCTTCTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGTGCTGT 563
QY 490 ATGTGATTTGATACATACCAAGATGAAGACTGCCACCAACATCTACATTTTCAACCTTG 549

564 ACCTCATCTCCGCTACGCCAAGATGAAACCAACATTTACATCTCAACCTGG 623
550 CTCCTGGAGATGCCCTTAGCCACAGTACCTGCGCCCTTCCAGAGTGTGAATTAACCTATGG 609
624 CCATCGAGATGAATCTCTCATCTGGGGCTGCGCCCTTCTTGGCCATGCAAGTGGCGCTGG 683
610 GAACATGGCCATTTGGGAACCATCTTTGCAAGATAGTGATCTCCATAGATTAATATAACA 669
684 TCCACTGGCCCTTTGGCAGGCCATCTGCGGGTGGTCATGACTGTGGACGGTATCAACC 743
670 TGTTACACAGATATACCCCTCTGCAACATGAGTGTGATTCGATATGCAATGCACTGACC 729
744 AGTTACACAGTATCTTCTGCTGAGCGGTATGAGCATCGACCGTTACCTGCGCCGTGGTCC 803
730 ACCCTGTCAAGCCCTTAGATTTCCGTACTCCCGAATGCGCAAAATATCAATCTCTGCA 789
804 ACCCCATTAAGTCAGCCAAATGGAGGCGACCCCGGACAGCCAAATGATCAACCTGGGTG 863
790 ACTGGATCCTCTCTTCAGCCCATTTGGTCTTCTGTAAATGTTTCATGGCT---ACAACAAAAT 846
864 TGTGGGGTGTCTCCTGCTGTCTATTTGGCCATCATGATATACGCTGGCCCTCGGAGCA 923
847 ACAGCGAAGGTTCATAGATGTACATAACATTTCTCAATCCAAACCTGGTACCTGGGAAA 906
924 ACCAGTGGGTAGGAGCAGCTGCACCATCAACTGGCCGGGCGAATCCGGGGCATGGTACA 983
907 ACCTCGTGAAGATCTGTGTTTTCATCTCGGCTTCATATCCAGTGTCTCATCATATACCG 966
984 CGGGTTTCTATATCTATGCTCTTCTCTGGGTTCTGGTATACCCCTAACCATCATCTGTCT 1043
967 TGTCTATGGATCATGATCTTGGCCCTCAAGAGTGTCCGATGCTCTCTGGCTCCAAAG 1026
1044 TCTGTACTCTGTTATCATCATCAAGGTGAAGTCTCTGGGATCGAGTGGGGTGGTCCA 1103
1027 AAAAGGACAGGAATCTTCGAAGGATCACAGGATGGTCTGGTGGTGGTGGTGGTGGTCCA 1086
1104 AGAGGAAAAGTCAGAGAAAAGGTGACCCGAAATGGTATCCATCGTGGTGGCTGTCTTCA 1163
1087 TGGTCTGTGACTCCCATTCACATTTAGCTAGCTATCAATTAAGCCCTTGGTTACATCCAG 1146
1164 TCTTCTGTGGTCCCTCTTATATCTTCAATGTCTCGTCCGTGTCTGGCCATCAGCC 1223
1147 AAACCTACCTTCAGACTGTTTCTTGGCACTTCTGCAATGCTCTAGGTTACACAAACAGCT 1206
1224 CCACCCCTGGCTGAAGGATGTTTGACTTTTGGTGGTATCTCTACCTACGCAACAGCT 1283
1207 GCCTCAACCCAGTCTTTATGATTTCTGGATGAAAACCTTCAACGATGCTTC 1259
1284 GCGCAACCCCATCTGTACGCTTCTTGTCCGACAACTTCAAGAAGAGCTTC 1336

RESULT 6
US-10-750-185-36071/c
; Sequence 36071, Application US/10750185
; Publication No. US20050260603A1
; GENERAL INFORMATION:
; APPLICANT: MMI GENOMICS, INC.
; APPLICANT: DENISE, Sue K.
; APPLICANT: KERR, Richard
; APPLICANT: ROSENFELD, David
; APPLICANT: HOLM, Tom
; APPLICANT: BATES, Stephen
; APPLICANT: FANTIN, Dennis
; TITLE OF INVENTION: COMPOSITIONS FOR INFERRING BOVINE TRAITS
; FILE REFERENCE: MM11100-2
; CURRENT APPLICATION NUMBER: US/10/750,185
; CURRENT FILING DATE: 2003-12-31
; PRIOR APPLICATION NUMBER: US 60/437,482
; PRIOR FILING DATE: 2002-12-31
; NUMBER OF SEQ ID NOS: 64922
; SOFTWARE: PatentIN version 3.1
; SEQ ID NO 36071
; LENGTH: 1685

; TYPE: DNA
; ORGANISM: Bovine 19866880675545
US-10-750-185-36071
Query Match 9.0%; Score 194.6; DB 6; Length 1685;
Best Local Similarity 51.4%; Pred. No. 2e-48;
Matches 534; Conservative 0; Mismatches 489; Indels 16; Gaps 3;
225 GCTGCCCCACGAAACGCGACCAATTGCATGATGCTTGGCGTACTCAAGTTGCTCC-C 283
1537 GAGCCCCACGCGCCCATCAGCTGAGATGTTCCCAATGAGCACCGCTCTCTCCCTC 1478
284 AGCAACGAGCCCGGTTCTGGGTCAACTGTGTCCCACTTAGATGGCAACCTGACGACCC 343
1477 CTCTCTAGCCCGACGCGAGCTGCGGCGAAGCGGCGGACGACGAGGCGCCCGGGC 1418
344 ATGGGTCGAAACGCGACCAACCTGGCGGGAGAGACAGCTGTGCTCCGACCGGAG 403
1417 CGGCGCTGCAGACGGGATGGAAGAACCGGGGCGAAGCGCTCCAGAACGGGACCTTGAG 1358
404 TCCCTCCATGATCACGGCCATCACGATCATGGCCCTCTACTCCATCGTGTGCTGGTGG 463
1357 CGAGGCGAGGGGAGCGCTATCTCTCATCTCTTTCATCTACTCCGTGGTGTGCTGGTGG 1298
464 GCTCTTCGGAACCTTCTGTGTCATGTATGTATGTGTGATGATACACCAAGATGAAGACTGC 523
1297 GCTCTGTGGGAACCTCCATGCTCTACTAGTGTCTGCGCTACGCAAGATGAAGACGCG 1238
524 CACCAACATCTACATTTTCAACCTTGTCTGGCAGATGCGCTTAGGCCACGATGACCTGCC 583
1237 CACCAACATCTACATCTCAACCTGCGCATGCGCGATGAGCTGTCTATGCTCAGGTGCC 1178
584 CTTCCAGAGTGTGAATTAACCTTAATGGGAACATGAGCCCATTTTGGAAACCATCTTTGCAAGAT 643
1177 CTTCTGTCACCTCCACATGCTTCCGCACTGGCCCTTCCGCGGCTACTCTGCGGCT 1118
644 AGTGATCTCCATAGATTAATAACATGTTTACAGCAATATTCACCTCTGCAACATGAG 703
1117 CGTCTCAGCGTGAACGAGTCAACATGTTTACCAGCATCTACTGTCTGACTGTGCTTAG 1058
704 TGTGTGATGATACATGTCAGTCTGCCACCTGTCAAGCCCTTAGATTTCCGCTACTCCCGG 763
1057 CGTGGACCGCTACGTGCGCGGTGGTGCACCCCATCAAGGCGCAGCTACCCCGGCCAC 998
764 AAATGCCAAAATTAATCAATGCTGCAACTGGATCTCTCTTTCAGCCATTTGCTTCTTC--- 820
997 CGTGGCAAGTGTGTGATCTGGGCGTGTGGGTGCTGTGCTGTGCTGTGCTGTGCTGTGCT 938
821 TGTAAATGTTCAATGCTACAAACAAATACAGCAAGGTTCCATAGATTTGATACACTAACAT 880
937 CGTGGTCTTCTCGCGCACGGCGCAACAGCGACGGCAGCGGTGGCTGCAACATGCTCAT 878
881 CTCTCATCAACCTGGTACTGGGAAAACCTGTAAGATCTGTGTTTTCATCTTCGCTT 940
877 GCGCGAGCCCGCCAGCGCTGGTGGGTGCTGTGTTGTGACACTTTTCTCATGGGCTT 818
941 CATTATGCGAGTGTCTCATATTACCGTGTGTATGGACTGATGATGATGCTTTCGCGCTCAAGAG 1000
817 CTTGCTGCGCTCGGGGCCATCTGCTGTGTGTACGTGTCTCATCGCCAAAATGCGCAT 758
1001 TGTCCGATGCTCTCTGGCTCCAAAGAAAGAGCAGGAATCTTTCGAAAGATCACCAGAT 1060
757 GGTGGCCCTCAAGGCGGCTGGCAGCAGCGCAAGCGCTCGGAGGCGCAAGATCACCTGAT 698
1061 GGTGCTGTGTGTGGTGTGTTCACTGCTGTGAGTCCCATTCATTCATTAATGATCAT 1120
697 GGTGATGATGTTGTGTGATGTTGCTATCTGTGGATGCTTCTTATGTGTGCTGACGT 638
1121 CATTAAAGCCCTTGGTTACAACTCCAGAAACTACGTTCCAGACTGTTTCTTGGCACTTCTG 1180
637 AGTCAACGTGTTCCGGGAGGAGGACGACCCACGGTGA-----GCCAGCTGTC 590
1181 CATTGCTCTAGGTTACAAACAGCTGCTCAACCCAGTCTCTTATGCAATTTCTGATGA 1240

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Db      589  GGTATCTCTCGGTACGCCAACAGCTGCGCCAAACCCCATCTCTACGGCTTCCTTTTCAGA 530
      1241  AAACCTTCAAAACGATGCTTC 1259
      529  CAACTTCAAGCGCTCTTTC 511

RESULT 7
US-10-750-623-36071/c
; Sequence 36071, Application US/10750623
; Publication No. US20050287531A1
; GENERAL INFORMATION:
; APPLICANT: MMI GENOMICS, INC.
; APPLICANT: DENISE, Sue K.
; APPLICANT: KERR, Richard
; APPLICANT: ROSENFELD, David
; APPLICANT: HOLM, Tom
; APPLICANT: BATES, Stephen
; APPLICANT: FANTIN, Dennis
; TITLE OF INVENTION: METHODS AND SYSTEMS FOR INFERRING BOVINE TRAITS
; FILE REFERENCE: WM11100-1
; CURRENT APPLICATION NUMBER: US/10/750,623
; CURRENT FILING DATE: 2003-12-31
; PRIOR APPLICATION NUMBER: US 60/437,482
; PRIOR FILING DATE: 2002-12-31
; NUMBER OF SEQ ID NOS: 64922
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 36071
; LENGTH: 1685
; TYPE: DNA
; ORGANISM: Bovine 19866880675545
US-10-750-623-36071

Query Match      9.0%; Score 194.6; DB 6; Length 1685;
Best Local Similarity 51.4%; Pred. No. 2e-48;
Matches 534; Conservative 0; Mismatches 489; Indels 16; Gaps 3;

QY      225  GCTGCCCCACGACGCGCAGCAATTGCATGATGCTTGGCTTGGCTGTACTCAAGTTGCTCC-C 283
Db      1537  GCAGCCCCACGGCCCCCATCAGCTGAGATGTTCCCCCAATGGCAGCCCTCTCTCCCTC 1478

QY      284  AGCACCAGCCCGCGTTCTGGGTCAACTTGTCCCACTTAGATGGCAACCTGACGACACC 343
Db      1477  CTCTCTAGCCCAAGCCGACGACGCTGCGCGAAGGGCGGCGAGCGGCCCCCGGGC 1418

QY      344  ATGGGTCCGAACCGCACCAACCTGGCGGGGAGAGACAGCTGTGCGCTCCGACCGGCAG 403
Db      1417  CGGCGCTGCAGCGGGATGAGAACCGGGCGGAAACGGTCCAGAACGGGACCTTGAG 1358

QY      404  TCCCTCCATGATCACGGCCCATCAGATCATGGCCCTCTACTCCATCGTGTGCGTGGGG 463
Db      1357  CGAGGGCCAGGCGCGCTATCTCTCTCTTTCATCTACTCGTGTGTGCTGTGGTGG 1298

QY      464  GCTCTTCGGAACCTTCTCTGTGATGATGATGATGATGATGATGATGATGATGATGATG 523
Db      1297  GCTCTGTGGGAACCTTCTCTGTGATGATGATGATGATGATGATGATGATGATGATGATG 1238

QY      524  CACCAACATCTACATTTTCAACCTTGTCTGCGAGATGCTTACCCACAGTACCCCTGCC 583
Db      1237  CACCAACATCTACATCTTCAACCTTGTCTGCGAGATGCTTACCCACAGTACCCCTGCC 1178

QY      584  CTTCCAGATGTGAATTAACCTTAATGGGAACATTTGGAAACCATCTTTTGCAGAT 643
Db      1177  CTTCTGTGTACCTCCACATTTGCTTCCACATGCGCCCTTCCGCGCGCTACTTGCCTC 1118

QY      644  AGTATCTCCATAGATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTA 703
Db      1117  CGTGTCTCAGGTGGACGAGTCAACATGTTTACACAGCATCTACTGTCTGATGTGCTTAG 1058

QY      704  TGTGTATCGATATATTCAGTCTGCCACCTGTCCAGGCTTATGATTTCCGCTACTCCCG 763
Db      1057  CGTGGACCGCTACGTGGCCGTGTGTGACCCCATCAAGCGCGCAGCTACCGCGGCCAC 998

RESULT 8
US-10-995-561-321
; Sequence 321, Application US/10995561
; Publication No. US20050272054A1
; GENERAL INFORMATION:
; APPLICANT: CARGILL, Michele et al.
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; TITLE OF INVENTION: CARDIOVASCULAR DISORDERS AND DRUG RESPONSE, METHODS OF
; TITLE OF INVENTION: DETECTION AND USES THEREOF
; FILE REFERENCE: CL001559
; CURRENT APPLICATION NUMBER: US/10/995,561
; CURRENT FILING DATE: 2004-11-24
; NUMBER OF SEQ ID NOS: 85702
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 321
; LENGTH: 1238
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-995-561-321

Query Match      8.7%; Score 187.6; DB 6; Length 1238;
Best Local Similarity 51.9%; Pred. No. 2.1e-46;
Matches 434; Conservative 8; Mismatches 382; Indels 12; Gaps 1;

QY      424  TCACGATCATGGCCCTCTACTCCATCGTGTGCGTGTGGGGCTTTCGGAACCTTCCTGG 483
Db      214  TCGCTATCCAGTGCATCTACGCGCTGTGTGCTGTGGGGCTGTGGTGGGCAACGCCCTGG 273

QY      484  TCATGATGTGATGTGTGTCAGATACCAAGATGAAGACTGCGCACCAACATCTACATTTTCA 543
Db      274  TCATCTTCGTGATCTCTTCGCTACGCCAAGATGAAGCGGTACCAACATCTACCTGTCTCA 333

QY      544  ACCTTGTCTGGCAGATGCTTACGCCACCAAGTACCTTCCCTCCCTCCAGAGTGTGAATACC 603
Db      334  ACCTGGCCGTAGCCGACGAGCTCTTATGTGTGAGCGGTGCGCTTCTGTCGCTCGCGCG 393
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QY 604 TAATGGGAACATGGCCATTTGGAAACCATCTTTGCAAGATAGTGATCTCCATAGATTACT 663
DB 394 CCTTGGGCCACTGGCCCTTCGGCTCCGTGCTGTGCGCGGGTGCTCAGGGTCGACGGCC 453
QY 664 ATAAATGTTTACCAGCATATTCACCCCTCTGCAACCATGAGTGTGTATCGATACATTTGCAG 723
DB 454 TCAACATGTTTACCAGGGTCTTCTGTCTACCGTGTCTCAGCGTGGACCGCTACGTGGCCG 513
QY 724 TCTGCCACCTGTCAAGGCCCTTAGATTTCCGTAATCTCCCGAAATGCGAAATTTATCAATG 783
DB 514 TGGTGCACCTCTGCGCGCGGACCTTACCGCGCGGCGGAGCTTACCGCGCGGCGGAGCTCATCAACC 573
QY 784 TCTGCAACTGGATCTCTCTTACAGCATTTGGTCTTCTGTAAATGTTTCATGGCTTACAAACA 843
DB 574 TGGGCGGTGGCTGGCATCCCTGTGTGCTACTCTCCCATCGGCATCTTCGACAGACCA 633
QY 844 AATACAGGCAAGGTTCCATAGATTGTACACTAAATTTCTCATCAACCTGTGTACTGGG 903
DB 634 GACGGCTCGCGGGCGGAGCGGCTGCAACCTGCAGTGGCCACACCCGGCCTGGT 693
QY 904 AAAACCTCTGGAAGATCTGTGTTTTCATCTTCCGCTTTCATATGCGAGTGTCTCATATTA 963
DB 694 CGGAGTCTGTTGCTGTACTTCTGCTGGGCTTCTGCTGCGCGTGTCTGCGCATTTG 753
QY 964 CCGTGTCTATGACTGATCTTGGCCTCAAGAGTGTCCGATGCTCTCTGGCTCCA 1023
DB 754 GYCTGTCTACTGCTCATCTGTGGGCAAGATGCGCGCGGCGGCTGCGGCGGCTGGC 813
QY 1024 AAGAAAAGGACAGGAATCTTCGAAGGATCACAGGATGCTGCTGGTGGTGGCTGTGT 1083
DB 814 AGACGCGAGCGCTCGGAGAGAAATCACAGGCTGGTGTGATGGTGTGTGTCT 873
QY 1084 TCATCGTCTGTGACTCCCATTCACATTTACGTCATTAAGCTTGGTGTACATTC 1143
DB 874 TTGTGCTCTGTGATGCCCTTCTACGTTGGTGCAGCTGCTGAACCTCTCTGTCAGCAGCC 933
QY 1144 CAGAACTAGTTCAGACTGTTTCTTGGCACTTCTGCACTTCTAGTGTACAGAA 1203
DB 934 TTGATGCCACCGTCAAC-----CACGTGCTCCCTTATCTCTCGAACAATTCGCGGATCTTC 981
QY 1204 GCTGCCTCAACCCAGTCTTATGCAATTTCTGGATGAAACTTCAACAGGATGCTTC 1259
DB 982 GCTGCGCAACCCYATTTCTATGGTTCCTTCTCGAACAATTCGCGGATCTTC 1037

RESULT 9

US-10-995-561-320
; Sequence 320, Application US/10995561
; Publication No. US20050272054A1
; GENERAL INFORMATION:
; APPLICANT: CARGILL, Michele et al.
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; TITLE OF INVENTION: CARDIOVASCULAR DISORDERS AND DRUG RESPONSE, METHODS OF
; TITLE OF INVENTION: DETECTION AND USES THEREOF
; FILE REFERENCE: CL001559
; CURRENT APPLICATION NUMBER: US/10/995,561
; CURRENT FILING DATE: 2004-11-24
; NUMBER OF SEQ ID NOS: 85702
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 320
; LENGTH: 1498
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-995-561-320

Query Match 8.7%; Score 187.6; DB 6; Length 1498;
Best Local Similarity 51.9%; Pred. No. 2.4e-46;
Matches 434; Conservative 8; Mismatches 382; Indels 12; Gaps 1;
QY 424 TCAGATCATGCCCTCTACTCCATCGTGTGCGTGGGCTCTTCGGAACCTCTCTGG 483
DB 214 TCGTATCCAGTGATCTACCGCTGTGTGCTGCTGGGCTGTGGGCAACGCCCTTG 273

QY 484 TCATGTATGTATGTGTGATGTGATACCAAGATGAAGACTGCCACCAACATCTACATTTTCA 543
DB 274 TCATCTTGTGTATCTCTGCTAGCGCAAGATGAAGACGGCTACCAACATCTACCTGCTCA 333
QY 544 ACCTTGTCTTGGCAGATGCCCTTAGCCACAGTACCTGCTCCCTTCCAGAGTGTGAATFACC 603
DB 334 ACCTGGCGGTAGCCGACGAGCTCTTTCATGCTGAGCGTGGCCCTTCTGTGGCTGTGGCGG 393
QY 604 TAATGGGAACATGGCCATTTGGAAACCATCTTTTGAAGATAGTGTCTCATAGATTACT 663
DB 394 CCTTGGGCCACTGGCCCTTCGGCTCGGTGCTGTGCGCGGGTGTCTCAGGTCGACGGCC 453
QY 664 ATAAATGTTTACCAGCATATTCACCCCTCTGCAACCATGAGTGTGTATCGATACATTTGCAG 723
DB 454 TCAACATGTTTACCAGGGTCTTCTGTCTCACCGTGTCTCAGCGTGGACCGCTACGTGGCCG 513
QY 724 TCTGCCACCTGTCAAGGCCCTTAGATTTCCGTAATCTCCCGAAATGCGAAATTTATCAATG 783
DB 514 TGGTGCACCTCTGCGCGCGGAGCTTACCGCGCGGCGGAGCTTACCGCGCGGCGGAGCTCATCAACC 573
QY 784 TCTGCAACTGGATCTCTCTTACAGCATTTGGTCTTCTGTAATGTTTCATGGCTTACAAACA 843
DB 574 TGGGCGGTGGCTGGCATCCCTGTGTGCTACTCTCCCATCGGCATCTTCGACAGACCA 633
QY 844 AATACAGGCAAGGTTCCATAGATTGTACACTAAATTTCTCATCAACCTGTGTACTGGG 903
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QY 904 AAAACCTCTGGAAGATCTGTGTTTTCATCTTCCGCTTTCATATGCGAGTGTCTCATATTA 963
DB 694 CGGAGTCTGTTGCTGTACTTCTGCTGGGCTTCTGCTGCGCGTGTCTGCGCATTTG 753
QY 964 CCGTGTCTATGACTGATCTTGGCCTCAAGAGTGTCCGATGCTCTCTGGCTCCA 1023
DB 754 GYCTGTCTACTGCTCATCTGTGGGCAAGATGCGCGCGGCGGCTGCGGCGGCTGGC 813
QY 1024 AAGAAAAGGACAGGAATCTTCGAAGGATCACAGGATGCTGCTGGTGGTGGCTGTGT 1083
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QY 1084 TCATCGTCTGTGACTCCCATTCACATTTACGTCATTAAGCTTGGTGTACATTC 1143
DB 874 TTGTGCTCTGTGATGCCCTTCTACGTTGGTGCAGCTGCTGAACCTCTCTGTCAGCAGCC 933
QY 1144 CAGAACTAGTTCAGACTGTTTCTTGGCACTTCTGCACTTCTAGTGTACAGAA 1203
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QY 1204 GCTGCCTCAACCCAGTCTTATGCAATTTCTGGATGAAACTTCAACAGGATGCTTC 1259
DB 982 GCTGCGCAACCCYATTTCTATGGTTCCTTCTCGAACAATTCGCGGATCTTC 1037

RESULT 10

US-10-995-561-13298
; Sequence 13298, Application US/10995561
; Publication No. US20050272054A1
; GENERAL INFORMATION:
; APPLICANT: CARGILL, Michele et al.
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; TITLE OF INVENTION: CARDIOVASCULAR DISORDERS AND DRUG RESPONSE, METHODS OF
; TITLE OF INVENTION: DETECTION AND USES THEREOF
; FILE REFERENCE: CL001559
; CURRENT APPLICATION NUMBER: US/10/995,561
; CURRENT FILING DATE: 2004-11-24
; NUMBER OF SEQ ID NOS: 85702
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 13298
; LENGTH: 86131
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-995-561-13298

Job time : 310.514 secs

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QY 181 CGCAGACGGTGCCTCCGCGCGCGTCACTGACAGCAGCGCTGCCCCACGAACG 240
Db 181 CGCAGACGGTGCCTCCGCGCGCGTCACTGACAGCAGCGCTGCCCCACGAACG 240
QY 241 CCAGCAATTCGACTGATGCTGCGGTGACTCAAGTTGCTCCCGCAGACCCAGCGCCGGTT 300
Db 241 CCAGCAATTCGACTGATGCTGCGGTGACTCAAGTTGCTCCCGCAGACCCAGCGCCGGTT 300
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QY 361 CCAATCTGGCGGAGAGACAGCCTGTGCGCTCCGACCGGAGTCCCTCCATGATCAGCG 420
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QY 421 CCATCAGATCATGGCCCTCTACTCCATCGTGTGCGTGGGGCTCTTCGGAAACTTCC 480
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QY 541 TCAACCTTGTCTGGGAGATGCGCTTAGCCACCAAGTACCCCTGCGCCCTCCAGAGTGAATT 600
Db 541 TCAACCTTGTCTGGGAGATGCGCTTAGCCACCAAGTACCCCTGCGCCCTCCAGAGTGAATT 600
QY 601 ACCTAATGGGAACATGGCCATTTGGAAACCATCTTTGCAAGATGATGATCTCCATAGATT 660
Db 601 ACCTAATGGGAACATGGCCATTTGGAAACCATCTTTGCAAGATGATGATCTCCATAGATT 660
QY 661 ACTATAACATGTTTACCAGATATTCACCCCTGCAACCATGAGTGTGATCGATACATTG 720
Db 661 ACTATAACATGTTTACCAGATATTCACCCCTGCAACCATGAGTGTGATCGATACATTG 720
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Db 721 CAGTCTGCCACCTGTCAAGGCCATTAGATTTCCGTACTCCCGAAATGCCAAATTTATCA 780
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Db 781 ATGCTGTCAACTGGATCTCTCTTCAGCCATTTGGTCTTCTGTAAATGTTTCATGGCTACAA 840
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Db 841 CAAAATACAGGCAAGGTTCCATAGATTGTACACTAACATTTCTCATCCAACTGGTACT 900
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Db 901 GGGAAACCTCGTGAAGATCTGTTTTCATCTTCGCTTCATTTATGCCAGTCTCATCA 960
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Db 1321 AGAACACTAGAGACCAACCCCTCCACGCGCAATACAGTGGATAGAACTAATCATCAGCTAG 1380
QY 1381 AAAATCTGAAGCAGAAACTGCTCGTTCGCTTAAACAGGGTCTCATGCCATTCGGACCTT 1440
Db 1381 AAAATCTGAAGCAGAAACTGCTCGTTCGCTTAAACAGGGTCTCATGCCATTCGGACCTT 1440
QY 1441 CACCAAGCTTTAGAACCCATGTATGTGGAAGAGTGTCTTCAAGATGTGTAGGAG 1500
Db 1441 CACCAAGCTTTAGAACCCATGTATGTGGAAGAGTGTCTTCAAGATGTGTAGGAG 1500
QY 1501 CTCTAATTTCTTAGGAAAGTGCTTACTTTTAGGTCTATCAACCTCTTCTCTCGGCCA 1560
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QY 1561 CTCTGCTCTGCACTTTAGAGGACAGCCAAAAGTAAAGTGGAGCATTTTGGAAAGGAA 1620
Db 1561 CTCTGCTCTGCACTTTAGAGGACAGCCAAAAGTAAAGTGGAGCATTTTGGAAAGGAA 1620
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Db 1621 TATACACACCGAGGAGTCCAGTTTGTGCAAGACACCCAGTGGAAACCCATCCGTCG 1680
QY 1681 GTATGTGAATGAAGTCAATATAAAGGTGACCTTCTCTGTAAAGATTTTATTTTCAA 1740
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Db 1741 GCAATATTTATGAACCTCAACAAAGAAACCATCTTTTGTAAAGTTCACCGTAGTAA 1800
QY 1801 CATAAAGTAAATGCTACCTCTGATCAAGACCTTGAATGGAGGTCCGAGTCTTTTAG 1860
Db 1801 CATAAAGTAAATGCTACCTCTGATCAAGACCTTGAATGGAGGTCCGAGTCTTTTAG 1860
QY 1861 TGTTTTTCGAAGGAATGAATCCATTTCTATTTTATAGACTTTTAACTTTCAACTTAAAT 1920
Db 1861 TGTTTTTCGAAGGAATGAATCCATTTCTATTTTATAGACTTTTAACTTTCAACTTAAAT 1920
QY 1921 TAGCATCTGGCTAAGGATCATTTTCACTCATTTTCTTGGTTTGTATTTTAAAAA 1980
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QY 1981 AATAACATCTCTTTTATCTAGCTCCATTAATTCAGGGAAGAGATTAGCATGAAAGTAA 2040
Db 1981 AATAACATCTCTTTTATCTAGCTCCATTAATTCAGGGAAGAGATTAGCATGAAAGTAA 2040
QY 2041 TCTGAAACACAGTCTGTCANCTGTAGAAAGTTGATTTCTCATGCACTNCAATACCT 2100
Db 2041 TCTGAAACACAGTCTGTCANCTGTAGAAAGTTGATTTCTCATGCACTNCAATACCT 2100
QY 2101 CAAAAGATCATCATGGGGATTTTTCATTTAGGCTTTTCTAGTGGTTTGTCTCGGAAT 2160
Db 2101 CAAAAGATCATCATGGGGATTTTTCATTTAGGCTTTTCTAGTGGTTTGTCTCGGAAT 2160
QY 2161 TC 2162
Db 2161 TC 2162

RESULT 2

US-09-113-426-1
; Sequence 1, Application US/09113426
; Patent No. 633/207
; GENERAL INFORMATION:
; APPLICANT: Kreek, Mary J
; APPLICANT: Laforce, Karl S

Db 1741 GCAATATTTATGACCTCAACAAGAAACCATCTTTTGTAAAGTTCCAGCTAGTAACA 1800
QY 1801 CATAAAGTAAATGCTACCTCTGATCAAGACCTTGAATGGAAGGTCCAGCTCTTTTAG 1860
Db 1801 CATAAAGTAAATGCTACCTCTGATCAAGACCTTGAATGGAAGGTCCAGCTCTTTTAG 1860
QY 1861 TGTATTTGCAAGGGAATGAATCCATTTCTATTTTAGACTTTTAACTTCAACTTAAAT 1920
Db 1861 TGTATTTGCAAGGGAATGAATCCATTTCTATTTTAGACTTTTAACTTCAACTTAAAT 1920
QY 1921 TAGCATCTGGCTAAGGCATCATTTTCACTCCATTTCTTTGGTTTGTATTTAAAAA 1980
Db 1921 TAGCATCTGGCTAAGGCATCATTTTCACTCCATTTCTTTGGTTTGTATTTAAAAA 1980
QY 1981 AATAACATCTTTTCACTAGCTCCATAATTTGCAAGGGAAGATTTAGCATGAAGGTAA 2040
Db 1981 AATAACATCTTTTCACTAGCTCCATAATTTGCAAGGGAAGATTTAGCATGAAGGTAA 2040
QY 2041 TCTGAACACAGTCACTGTGTGTCANCTGTAGAAAGTTGATTTCTATGCACTNCAATAC 2100
Db 2041 TCTGAACACAGTCACTGTGTGTCANCTGTAGAAAGTTGATTTCTATGCACTNCAATAC 2100
QY 2101 CAAAGAGTCACTATCGGGGATTTTTCATTTCTTAGCTTTTCACTGCTTCTGGAAT 2160
Db 2101 CAAAGAGTCACTATCGGGGATTTTTCATTTCTTAGCTTTTCACTGCTTCTGGAAT 2160
QY 2161 TC 2162
Db 2161 TC 2162

RESULT 3

US-09-016-434-1379
; Sequence 1379, Application US/09016434
; Patent No. 6500938
; GENERAL INFORMATION:
; APPLICANT: Janice Au-Young
; APPLICANT: Jeffrey J. Seilhamer
; TITLE OF INVENTION: COMPOSITION FOR THE DETECTION OF SIGNALING
; TITLE OF INVENTION: PATHWAY GENE EXPRESSION
; NUMBER OF SEQUENCES: 1490
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: INCYTE PHARMACEUTICALS, INC.
; STREET: 3174 PORTER DRIVE
; CITY: PALO ALTO
; STATE: CALIFORNIA
; COUNTRY: USA
; ZIP: 94304
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Word Perfect 6.1 for Windows/MS-DOS 6.2
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/016,434
; FILING DATE: HEREWITH
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: Zeller, Karen J.
; REGISTRATION NUMBER: 37,071
; REFERENCE/DOCKET NUMBER: PA-0002 US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (650) 855-0555
; TELEFAX: (650) 845-4166
; INFORMATION FOR SEQ ID NO: 1379:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2162 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single

; TOPOLOGY: linear
; IMMEDIATE SOURCE:
; LIBRARY: GENBANK
; CLONE: 9452072
US-09-016-434-1379
Query Match 99.8%; Score 2158.4; DB 3; Length 2162;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 2161; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 1 GGAATTCGGGCTATAGGAGAGAGAAATGTTCAGATGCTCAGCTCGGTCCCTCCGCTGA 60
Db 1 GGAATTCGGGCTATAGGAGAGAGAAATGTTCAGATGCTCAGCTCGGTCCCTCCGCTGA 60
QY 61 CGCTCCTCTCTCTCTCAGCCAGGACTGTTTCTGTAAGAAACAGCAGGAGCTGTGCAGC 120
Db 61 CGCTCCTCTCTCTCTCAGCCAGGACTGTTTCTGTAAGAAACAGCAGGAGCTGTGCAGC 120
QY 121 GCGGAAAGGAAGCGGCTGAGGCGCTTGGAAACCCGAAAGTCTCGGTGCTTCTGGCTACCT 180
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QY 181 CGCAGAGCGGTCCCGCGGCGCTCAGTACCAATGGAAGAGCGTGCCTCCGCAAGACG 240
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QY 241 CCAGCAATTTGCACTGATGCTTGGCGGTACTCAAGTTGCTCCCGCAGCACCCGCGGT 300
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Db 301 CTTGGGTCAAATTTGTCCCACTTAGATGGCAACTGTGCCGACCATGCGGTCCGAAACGCA 360
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Db 1441 CACCAAGCTTAGAAGCCACCATGATGATGGAAGCAGAGTTGTTCAAGAAATGTGAGGAG 1500
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Db 1921 TAGCATCTGGCTTAAGGCATCATTTTCACTCCATTTCTTGGTTTGTATTTGTTTAAAAA 1980
Qy 1981 AATAACATCTCTTTTCATCTAGCTCCATAATTGCAAGGGAAGATTTAGCATGAAAGGTAA 2040
Db 1981 AATAACATCTCTTTTCATCTAGCTCCATAATTGCAAGGGAAGATTTAGCATGAAAGGTAA 2040
```

```
Qy 2041 TCTGAAACACAGTCATGTGTCACTGTGTAGAAAAGTTGATTTCTATGCACTNCAAAATCTT 2100
Db 2041 TCTGAAACACAGTCATGTGTCACTGTGTAGAAAAGTTGATTTCTATGCACTNCAAAATCTT 2100
Qy 2101 CCAAGAGTCATCATGGGGATTTTTCATTTCTTAGGCTTTTCACTGGTTTGTCTCTGGAAT 2160
Db 2101 CCAAGAGTCATCATGGGGATTTTTCATTTCTTAGGCTTTTCACTGGTTTGTCTCTGGAAT 2160
Qy 2161 TC 2162
Db 2161 TC 2162

RESULT 4
US-09-355-709C-7
; Sequence 7, Application US/09355709C
; Patent No. 6538120
; GENERAL INFORMATION:
; APPLICANT: Max-Delbruck-Centrum fur Molekulare Medizin
; TITLE OF INVENTION: Genomic Sequences of Human -opioid Receptor Gene ...
; FILE REFERENCE: 101195-15
; CURRENT APPLICATION NUMBER: US/09/355,709C
; CURRENT FILING DATE: 1999-09-27
; PRIOR APPLICATION NUMBER: DE 197 03 925.1
; PRIOR FILING DATE: 1997-02-03
; NUMBER OF SEQ ID NOS: 7
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 7
; LENGTH: 2162
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Human Genomic
; OTHER INFORMATION: Clone
; OTHER INFORMATION: cDNA encoding human opiate receptor
; NAME/KEY: unsure
; LOCATION: (2063)
; OTHER INFORMATION: n = unknown
; NAME/KEY: unsure
; LOCATION: (2091)
; OTHER INFORMATION: n = unknown
; US-09-355-709C-7

Query Match 99.4%; Score 2148.8; DB 3; Length 2162;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 2152; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 9 GGCTATAGGCAGAGAGAAATGTCTAGATGCTCAGCTCGGTCCCTCCGCTGACGCTCCTC 68
Db 9 GGCTATAGGCAGAGAGAAATGTCTAGATGCTCAGCTCGGTCCCTCCGCTGACGCTCCTC 68
Qy 69 TCTGTCTCAGCAGAGACTGGTTTCTGTAAAGAAACAGCAGGAGCTGTGGCAGCGGCGAAAG 128
Db 69 TCTGTCTCAGCAGAGACTGGTTTCTGTAAAGAAACAGCAGGAGCTGTGGCAGCGGCGAAAG 128
Qy 129 GAACGGCTGAGGCGCTTGGAAACCGAAAGTCTCGGTGCTCTCTGGCTACCTCGCACAGC 188
Db 129 GAACGGCTGAGGCGCTTGGAAACCGAAAGTCTCGGTGCTCTCTGGCTACCTCGCACAGC 188
Qy 189 GGTGCCCGCCCGCGCTCAGTACCATGGACAGCAGCTGCCCCACGAAACCGACGCAAT 248
Db 189 GGTGCCCGCCCGCGCTCAGTACCATGGACAGCAGCTGCCCCACGAAACCGACGCAAT 248
Qy 249 TGCATGATGCTTGGCGTACTCAAGTTGCTCCCGACACCGCCCGGTTCTCTGGGTC 308
Db 249 TGCATGATGCTTGGCGTACTCAAGTTGCTCCCGACACCGCCCGGTTCTCTGGGTC 308
Qy 309 AACTTGTCCCACTTAGATGGCAACTGTCCGACCATCGCGTCCGAAACCGACCAATCTG 368
Db 309 AACTTGTCCCACTTAGATGGCAACTGTCCGACCATCGCGTCCGAAACCGACCAATCTG 368
Qy 369 GCGCGGAGAGACAGCCTGTGCCCTCCGACCGGCAAGTCCCTCAATGATCAGGCCATCAG 428
Db 369 GCGCGGAGAGACAGCCTGTGCCCTCCGACCGGCAAGTCCCTCAATGATCAGGCCATCAG 428
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1801 CATAAAGTAAATGCTACCTCTGATCAAGACACCTTGAATGGAAGTCCGAGTCTTTTAG 1860
1801 CATAAAGTAAATGCTACCTCTGATCAAGACACCTTGAATGGAAGTCCGAGTCTTTTAG 1860
1861 TGTTTTTGAAGGGAATGAATCCATTAATCTATTTTAGACTTTTAACTTCAACTTAAAT 1920
1861 TGTTTTTGAAGGGAATGAATCCATTAATCTATTTTAGACTTTTAACTTCAACTTAAAT 1920
1921 TAGCATCTGGCTAAGGCATCAATTTTCACTCCATTTCTTGTTTGTATTTGTTTAAAAA 1980
1921 TAGCATCTGGCTAAGGCATCAATTTTCACTCCATTTCTTGTTTGTATTTGTTTAAAAA 1980
1981 AATAACATCTCTTTTCACTAGCTCCATTAATGCAAGGGAAGATTAAGCATGAAGGTAA 2040
1981 AATAACATCTCTTTTCACTAGCTCCATTAATGCAAGGGAAGATTAAGCATGAAGGTAA 2040
2041 TCTGAACACAGTCATCTGTCTCANCTGTAGAAAGTTGATTTCTCATGCACCTNCAATAC 2100
2041 TCTGAACACAGTCATCTGTCTCA-CTGTAGAAAGTTGATTTCTCATGCACCT-CAATAC 2098
2101 CAAAGAGTCATCATGGGGATTTTCACTTTTAGGCTTTAGTGGTTTCTCTGGAAT 2160
2099 CCAAGAGTCATCATGGGGATTTTCACTTTTAGGCTTTAGTGGTTTCTCTGGAAT 2158
2161 TC 2162
2159 TC 2160

RESULT 6

US-08-889-108-7
Sequence 7, Application US/08889108
Patent No. 6103492
GENERAL INFORMATION:
APPLICANT: Yu, Lei
TITLE OF INVENTION: Mu Opioid Receptors: Compositions and Methods
NUMBER OF SEQUENCES: 17
CORRESPONDENCE ADDRESS:
ADDRESSEE: Arnold, White & Durkee
STREET: P. O. Box 4433
CITY: Houston
STATE: TX
COUNTRY: USA
ZIP: 77210-4433
COMPUTER READABLE FORM: disk
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/889,108
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/305,518
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Wilson, Mark B.
REGISTRATION NUMBER: 37,259
REFERENCE/DOCKET NUMBER: INDA005\WIM
TELECOMMUNICATION INFORMATION:
TELEPHONE: 512-418-3000
TELEFAX: 512-474-7577
INFORMATION FOR SEQ ID NO: 7:
SEQUENCE CHARACTERISTICS:
LENGTH: 1610 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
US-08-889-108-7

Query Match 71.8%; Score 1551.4; DB 3; Length 1610;
Best Local Similarity 99.6%; Pred. No. 0;
Matches 1566; Conservative 0; Mismatches 6; Indels 1; Gaps 1;
QY 9 GGCTATAGCAGAGGAGATGTCAATGCTCAGTCTCGTCCCTCGCTCAGCTCCTC 68
DB 36 GGCTATAGCAGAGGAGATGTCAATGCTCAGTCTCGTCCCTCGCTCAGCTCCTC 95
QY 69 TCTGTCTCAGCAGGAGTGTCTTCTTGAAGAACAGCAGAGCTGTGGCAGGGGAAAG 128
DB 96 TCTGTCTCAGCAGGAGTGTCTTCTTGAAGAACAGCAGAGCTGTGGCAGGGGAAAG 155
QY 129 GAAGGGCTGAGGCGCTTGGAAACCGGAAAGTCTCGGTCTCTCGCTACCTCGCACAG 188
DB 156 GAAGGGCTGAGGCGCTTGGAAACCGGAAAGTCTCGGTCTCTCGCTACCTCGCACAG 215
QY 189 GGTGCCCGCCGGCGCTCAGTACCATGAGCAGAGGCTGCCCCCAGAACGCCAGCAAT 248
DB 216 -GTGCCCGCCGGCGCTCAGTACCATGAGCAGAGGCTGCCCCCAGAACGCCAGCAAT 274
QY 249 TGCACGTGATGCTTGGCGTACTCAAGTTGCTCCCGACCCAGACCCCGGTTCTCGGTC 308
DB 275 TGCACGTGATGCTTGGCGTACTCAAGTTGCTCCCGACCCAGACCCCGGTTCTCGGTC 334
QY 309 AACTTTGTCCCACTTAGATGGCAACCTGTCCGACCCATGCGGTCCGAAACCTTCAACCTT 368
DB 335 AACTTTGTCCCACTTAGATGGCAACCTGTCCGACCCATGCGGTCCGAAACCTTCAACCTT 394
QY 369 GCGGGAGAGACAGCCTGTGCGCTCGACCGGAGTCCCTCCATGATCAAGGCGATCAG 428
DB 395 GCGGGAGAGACAGCCTGTGCGCTCGACCGGAGTCCCTCCATGATCAAGGCGATCAG 454
QY 429 ATCATGGCCCTTACTCCATCGTGTGCGGTGGGCTCTTCGGAACCTTCTCGTGTCTG 488
DB 455 ATCATGGCCCTTACTCCATCGTGTGCGGTGGGCTCTTCGGAACCTTCTCGTGTCTG 514
QY 489 TATGTGATGTGATGATACACCAAGATGAAGTGGCCACCAACATCTACATTTTCAACCTT 548
DB 515 TATGTGATGTGATGATACACCAAGATGAAGTGGCCACCAACATCTACATTTTCAACCTT 574
QY 549 GCTCTGGCAGATGCTTGAAGCAGTACCTGCGCTTCCAGAGTGTGAATTAACCTTAATG 608
DB 575 GCTCTGGCAGATGCTTGAAGCAGTACCTGCGCTTCCAGAGTGTGAATTAACCTTAATG 634
QY 609 GGAACATGSCCATTTTGGAAACCATCTTTCAGAGATGATGATCTCCATAGATTAATAAC 668
DB 635 GGAACATGSCCATTTTGGAAACCATCTTTCAGAGATGATGATCTCCATAGATTAATAAC 694
QY 669 ATGTTTACCAGCATATTACACCTCTGACCATGAGTGTGATCGATACATTCAGTCTGC 728
DB 695 ATGTTTACCAGCATATTACACCTCTGACCATGAGTGTGATCGATACATTCAGTCTGC 754
QY 729 CACCTGTCAAGGCTTAGATTTCCGTTACTCCCGAAATGCCAAATTAATTAATGCTGC 788
DB 755 CACCTGTCAAGGCTTAGATTTCCGTTACTCCCGAAATGCCAAATTAATTAATGCTGC 814
QY 789 AACTGGATCTCTCTTCAAGCCTTCTCTGTAATGTTTCTGATGCTCAACAAATATAC 848
DB 815 AACTGGATCTCTCTTCAAGCCTTCTCTGTAATGTTTCTGATGCTCAACAAATATAC 874
QY 849 AGGCAAGGTTCCATAGATTTGATACATTAATCTCTCAACCTGATGCTGGGAAAC 908
DB 875 AGGCAAGGTTCCATAGATTTGATACATTAATCTCTCAACCTGATGCTGGGAAAC 934
QY 909 CTCGTGAAGATCTGTGTTTCACTTTCGCTTCAATATGCCAGTGTCTATCATACCGTG 968
DB 935 CTCGTGAAGATCTGTGTTTCACTTTCGCTTCAATATGCCAGTGTCTATCATACCGTG 994
QY 969 TCGTATGAGTCTGATGATCTTGGCGCTCAAGAGTGTCCGATGCTCTCTGCTCCAAAGAA 1028
DB 995 TCGTATGAGTCTGATGATCTTGGCGCTCAAGAGTGTCCGATGCTCTCTGCTCCAAAGAA 1054
QY 1029 AAGGACAGGAATCTTTCGAAGGATCACAGGATGGTGTGCTGGTGGTGTGTTTCATC 1088

Db 1055 AAGGACAGGAATCTTCAGAGGATCACCAGGATGCTGCTGGTGGTGGTGTGTTTCATC 1114
Qy 1089 GTCTGCTGGACTCCCATTCACATTTAGTCATCATTAAGCCTTGGTTCAATCCAGAA 1148
Db 1115 GTCTGCTGGACTCCCATTCACATTTAGTCATCATTAAGCCTTGGTTCAATCCAGAA 1174
Qy 1149 ACTACGTTCCAGACTGTTCTTGGCACTTCGATGCTCTAGGTTACACAAACAGCTGC 1208
Db 1175 ACTACGTTCCAGACTGTTCTTGGCACTTCGATGCTCTAGGTTACACAAACAGCTGC 1234
Qy 1209 CTCACCCAGTCCCTTTATGCAATTTCTGGATGAAACTTCAAAACGATGCTTCAGAGATT 1268
Db 1235 CTCACCCAGTCCCTTTATGCAATTTCTGGATGAAACTTCAAAACGATGCTTCAGAGATT 1294
Qy 1269 TGTATCCCAACTCTTCCCAACTTGAAGCAAACTCCACTCGAATTCGTTCAGAACT 1328
Db 1295 TGTATCCCAACTCTTCCCAACTTGAAGCAAACTCCACTCGAATTCGTTCAGAACT 1354
Qy 1329 AGACACACCCCTCCAGGCAATACAGTGGATAGAACTAATCATCAGCTAGAAATCTG 1388
Db 1355 AGACACACCCCTCCAGGCAATACAGTGGATAGAACTAATCATCAGCTAGAAATCTG 1414
Qy 1389 GAACGAGAACTGCTCCGTTGCCCTTAACAGGCTCTCATGCAATTCGACCTTCAACCAAGC 1448
Db 1415 GAACGAGAACTGCTCCGTTGCCCTTAACAGGCTCTCATGCAATTCGACCTTCAACCAAGC 1474
Qy 1449 TTAGAAGCCACATGTATGTGGAGAGAGGTTGCTTCAAGAAATGTGTAGGAGGCTTAATT 1508
Db 1475 TTAGAAGCCACATGTATGTGGAGAGAGGTTGCTTCAAGAAATGTGTAGGAGGCTTAATT 1534
Qy 1509 CTCTAGGAAAGTGCCTACTTTTAGTGCATCAACCTCTTTCCTCTCTGGCCACTCTGTC 1568
Db 1535 CTCTAGGAAAGTGCCTACTTTTAGTGCATCAACCTCTTTCCTCTCTGGCCACTCTGTC 1594
Qy 1569 TGCACATTAGAGG 1581
Db 1595 TGCACATTAGAGG 1607

RESULT 7
PCT-US94-10358-7
; Sequence 7, Application PC/TUS9410358
; GENERAL INFORMATION:
; APPLICANT:
; TITLE OF INVENTION: MU OPIOID RECEPTORS: COMPOSITIONS AND METHODS
; NUMBER OF SEQUENCES: 17
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Arnold, White & Durkee
; STREET: P. O. Box 4433
; CITY: Houston
; STATE: Texas
; COUNTRY: USA
; ZIP: 77210
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS/ASCII
; SOFTWARE: PATENTIN RELEASE #1.0, VERSION #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US94/10358
; FILING DATE: Concurrently herewith
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/120.601
; FILING DATE: 13 SEPTEMBER 1993
; ATTORNEY/AGENT INFORMATION:
; NAME: WILSON, MARK B.
; REGISTRATION NUMBER: 37,259
; REFERENCE/DOCKET NUMBER: INDA005P--
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (512) 418-3000
; TELEFAX: (713) 789-2679

; TELEX: 79-0924
; INFORMATION FOR SEQ ID NO: 7:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1610 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cdna
; PCT-US94-10358-7

Query Match 71.8%; Score 1551.4; DB 6; Length 1610;
Best Local Similarity 99.8%; Pred. No. 0;
Matches 1566; Conservative 0; Mismatches 6; Indels 1; Gaps 1;

Qy 9 GGCTATAGGACAGAGAGAAATGTTCAGATGCTCAGCTCGGTCCCTCCCTCCGCTGACGCTCCTC 68
Db 36 GGCTATAGGACAGAGAGAAATGTTCAGATGCTCAGCTCGGTCCCTCCCTCCGCTGACGCTCCTC 95
Qy 69 TCTGTCTCAGCCAGGACTGTTTCTGTAAGAAACAGCAGGAGCTGTGGCAGCGCGGAAAG 128
Db 96 TCTGTCTCAGCCAGGACTGTTTCTGTAAGAAACAGCAGGAGCTGTGGCAGCGCGGAAAG 155
Qy 129 GAACCGGCTCAGCGGCTTGGAAACCGAAAGTCTCGGTGCTCCTGGCTACCTCGCACAGC 188
Db 156 GAACCGGCTCAGCGGCTTGGAAACCGAAAGTCTCGGTGCTCCTGGCTACCTCGCACAGC 215
Qy 189 GGTGCCCGCCGCGCTGCTAGCTACCATGGACAGCAGCGCTGCCCGCCACGAAACGCCAGCAAT 248
Db 216 -GTGCCCGCCGCGCTGCTAGCTACCATGGACAGCAGCGCTGCCCGCCACGAAACGCCAGCAAT 274
Qy 249 TGCACTGATGCTTGGCGTACTCAAGTTGCTTCCAGCAGCAGCCCGCGGTTCCTGGGTC 308
Db 275 TGCACGTAGTCCCTTGGCGTACTCAAGTTGCTTCCAGCAGCAGCCCGCGGTTCCTGGGTC 334
Qy 309 AACTTGTCCACTTAGATGCAACCTGTCGACCCATCGGTCCGAAACCGCAACCAATCTG 368
Db 335 AACTTGTCCACTTAGATGCAACCTGTCGACCCATCGGTCCGAAACCGCAACCAATCTG 394
Qy 369 GGGGGAGAGACAGCCTGTCCTCCGACCGGAGTCCCTCCATGATCAGCGCCATCAG 428
Db 395 GGGGGAGAGACAGCCTGTCCTCCGACCGGAGTCCCTCCATGATCAGCGCCATCAG 454
Qy 429 ATCATGGCCCTCTACTCCATCGTGTGGTGGGCTCTTGGAAACTTCTGGTCTATG 488
Db 455 ATCATGGCCCTCTACTCCATCGTGTGGTGGGCTCTTGGAAACTTCTGGTCTATG 514
Qy 489 TATGTGATGTTCAGATACACCAAGATCAAGACTGCCCAACATCTACATTTTCAACCTT 548
Db 515 TATGTGATGTTCAGATACACCAAGATCAAGACTGCCCAACATCTACATTTTCAACCTT 574
Qy 549 GCTCTGGCAGATGCTTTAGCCACCCAGTACCTCGCTTCCAGAGTGTGAATTAATTAATG 608
Db 575 GCTCTGGCAGATGCTTTAGCCACCCAGTACCTCGCTTCCAGAGTGTGAATTAATTAATG 634
Qy 609 GGAACATGGCCATTTGGAACCATCTTTTGAAGATAGTGTCTCAATAGATTATATAAC 668
Db 635 GGAACATGGCCATTTGGAACCATCTTTTGAAGATAGTGTCTCAATAGATTATATAAC 694
Qy 669 ATGTTCCAGCATATTTACCCCTCTGCACCATGATGTTGATCGATGATGATGATGATG 728
Db 695 ATGTTCCAGCATATTTACCCCTCTGCACCATGATGTTGATCGATGATGATGATGATG 754
Qy 729 CACCTCTCAAGGCTTAGATTTCCGTAATCTCCCGAAATGCCAAATTTATCAATGTCTGCG 788
Db 755 CACCTCTCAAGGCTTAGATTTCCGTAATCTCCCGAAATGCCAAATTTATCAATGTCTGCG 814
Qy 789 AACTGGATCTCTCTTTCAGCCATTGGTCTTCTGTAATGTTTCATGGCTTACCAAAAATAC 848
Db 815 AACTGGATCTCTCTTTCAGCCATTGGTCTTCTGTAATGTTTCATGGCTTACCAAAAATAC 874
Qy 849 AGGCAAGGTTCCATAGATTGTACACTAACTTCTCATCAACCTGTGTTGTTGTTGTTGTTG 908
Db 875 AGGCAAGGTTCCATAGATTGTACACTAACTTCTCATCAACCTGTGTTGTTGTTGTTGTTG 934

Qy 1233 CTGGATGAAACTTCAAACGATGCTTCAGAGAGTTCTGTATCCAACTCTTCCAACTT 1292
Db 1021 CTGGATGAAACTTCAAACGATGCTTCAGAGAGTTCTGTATCCAACTCTTCCAACTT 1080
Qy 1293 GAGCAACAAACTCCACTCGAATTTGTCAGAACACTAGAGACCACTCCCTCCAGGCCAAT 1352
Db 1081 GAGCAACAAACTCCACTCGAATTTGTCAGAACACTAGAGACCACTCCCTCCAGGCCAAT 1140
Qy 1353 ACAGTGTAGAACTAATCATCAGCTAGAAATCTGGAAGCAGAACTGCTCCGTTGCC 1412
Db 1141 ACAGTGTAGAACTAATCATCAGCTAGAAATCTGGAAGCAGAACTGCTCCGTTGCC 1200
Qy 1413 TAA 1415
Db 1201 TAA 1203

RESULT 9
US-09-214-904-1
; Sequence 1, Application US/09214904
; Patent No. 6632977
; GENERAL INFORMATION:
; APPLICANT:
; TITLE OF INVENTION: TRANSGENIC ANIMAL IN WHICH THE EXPRESSION
; TITLE OF INVENTION: OF OPIATE RECEPTORS IS MODIFIED
; NUMBER OF SEQUENCES: 6
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)
; CURRENT APPLICATION DATA: US/09/214,904
; FILING DATE:
; PRIOR APPLICATION DATA: PCT/FR97/01282
; FILING DATE:
; APPLICATION NUMBER: FR 96.08810
; FILING DATE:
; FILING DATE: 15-JUL-1996
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2229 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 256..1449
; US-09-214-904-1

Query Match 54.5%; Score 1179; DB 3; Length 2229;
Best Local Similarity 77.9%; Pred. No. 2.6e-301;
Matches 1543; Conservative 0; Mismatches 410; Indels 28; Gaps 9;

Qy 9 GGCTATAGGCAAGAGAGAAATGTGATGCTCAGTCGTCGCTCCCTCCGCTCAGGCTCTC 68
Db 52 GGATACAGCAGAGAGAAATATCGGACGCTCAG-ACGTTCCATTCTGCTCCGCTCTTC 110
Qy 69 TCTGTCTCAGCCGACCTGGTTTCTGTAAGAAACAGCAGGAG-CTGTGGCAGCGGAAA 127
Db 111 TCTGGTTCCACTAGGGCTTGTCCTTGTGTAAGAACTGACGGAGCCCTAGGGCAGCTGTGAGA 170
Qy 128 GGAAGCGCTGAGGCGCTTGGAAACCCGAAAGTCTCGGTGCTCCTGGCTACCTCGCACAG 187
Db 171 GGAAGAGCTGGGGCGCTGGAAACCCGAACTCTTGAGTGTCTCAGTTACAGCCTACC 230
Qy 188 CGGTGCCCGCCGCGCTCAGTACCATGGAAGCAGAGCGCTGCCCAAGCCGACGAA 247
Db 231 GAGTCCGAGCAAGCAATTCAGAACCATGGAAGCAGAGCGCCGCGCCGAGGGAACATCAGCGA 290
Qy 248 TTGCACTGATGCCTTGGCGTACTCAAGTTGCTTCCCGCAGCACCACCGGCTTCTGGGT 307

Db 291 CTGCTCGACCCCTTAGCTCCTGCAAGTTGGTCCCCAGCA-----CTGGCTCCTGGCT 344
Qy 308 CAACCTTGTCCCACTTAGATGGCAACCTGTCCGAGCCCATGCGGTCCGGAACCGCACCAATCT 367
Db 345 CAACCTTGTCCCACTTAGATGGCAACCTGTCCGAGCCCATGCGGTCTTAACCGCACGGGCT 404
Qy 368 GGGCGGAGAGACAGAGCTGTGCCCTCCGACCGGAGTCCCTCCATGATCAGGGCAGTACAC 427
Db 405 TGGCGGAGAGACAGAGCTGTGCCCTCCGACCGGAGCCCTTCCATGGTTCACAGGCATCAC 464
Qy 428 GATCATGGCCCTCTACTCCATCGTGTGGGCTCTTCGGAACCTTCCCTGGTTCAT 487
Db 465 CATCATGGCCCTCTATTCTATCGTGTGTAGTGGGCTCTTTTGGAAACCTTCCCTGGTTCAT 524
Qy 488 GTATGTGATTGTGAGATACACCAAGATGAAGACTGCCACCAACATCTACATTTTCAACCT 547
Db 525 GTATGTGATTGTGAGATATACCAAAATGAAGACTGCCACCAACATCTACATTTTCAACCT 584
Qy 548 TGCTCTGGCAGATGCCCTTAGCCACCAAGTACCCCTGCCCTCCAGAGTGTGAATTAACCTAAT 607
Db 585 TGCTCTGGCAGATGCCCTTAGCCACCAAGTACCCCTGCCCTTTCAGAGTGTTAACCTACCTGAT 644
Qy 608 GGGAAACATGGCCATTTGGAAACCATCTTTTGCAGATAGTATCTCCATAGATTAATAA 667
Db 645 GGGAAACATGGCCCTTTGGAAACCATCTCTCTGCAAGATCGTGAATCTCAATAGACTACTACAA 704
Qy 668 CATGTTTACCAGCATATTTCAACCTCTGCACCATGAGTGTGATCGATACATTTGCAAGTCTG 727
Db 705 CATGTTTACCAGTATCTTTCAACCTCTGCACCATGAGTGTAGAGCGCTACATTTGCCGCTG 764
Qy 728 CCACCTCTGTCAGAGCCTTAGATTTCCGTACTCTCCCGAAATGCCAAATTAATCAATGTCTG 787
Db 765 CCACCTCTGTCAGAGCCTTAGATTTCCGTACTCTCCCGAAATGCCAAATTTGTCAATGTCTG 824
Qy 788 CAACCTGATCTCTCTTTCAGCAGATGCTCTTCTGTAATGTTTCAATGCTTACCAAAATA 847
Db 825 CAACCTGATCTCTCTTTCAGCAGATGCTCTTCTGTAATGTTTCAATGCTTACCAAAATA 884
Qy 848 CAGCAGAGTTCATAGATTTGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 907
Db 885 CAGCAGAGTTCATAGATTTGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 944
Qy 908 CCTCGTCAAGATCTGTGTTTTCATCTTTCGCTTCAATTAATGCGAGTGTCTCATTTACCGT 967
Db 945 CCTGCTCAAAATCTGTCTTTCATCTTTCGCTTCAATGATGCGGTCTCTCATCATCATCTGT 1004
Qy 968 GTGCTATGGAATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1027
Db 1005 GTGTTATGGAATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1064
Qy 1028 AAAGGACAGGAATCTTCGAAGGATCACCAGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1087
Db 1065 AAAGGACAGGAATCTTCGAAGGATCACCAGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1124
Qy 1088 CGTCTGCTGGAATCTCCCATTCACATTTACGTCATCATTAAGAGCCTTGGTTACAAATCCCA 1147
Db 1125 TGCTGCTGGAATCTCCCATTCACATTCATGATGATCATCAAGACATGATCAGATTCACAGA 1184
Qy 1148 AACTACGTTCCAGACTGTTTCTTGGCACTTCTGATGCTCTAGGTTTACAAACAGCTG 1207
Db 1185 AACCACTTTCAGACTGTTTCTTGGCACTTCTGATGCTTGGCTTGGCTTGGCTTGGCTTGGCT 1244
Qy 1208 CCTCAACCCAGTCTTTTATGATGCTTTCGATGAAATCTTCAACAGATGCTTTCAGAGATT 1267
Db 1245 CCTGAACCCAGTCTTTTATGCTTTCGATGAAATCTTCAACAGATGCTTTCAGAGATT 1304
Qy 1268 CTGTATCTCCAACTCTTCCAACTTTCGATGAAATCTTCAACAGATGCTTTCAGAGATT 1327
Db 1305 CTGATCTCCAACTCTTCCAACTTTCGATGAAATCTTCAACAGATGCTTTCAGAGATT 1364
Qy 1328 TAGAGACCACTCCCTCCAGCGCAATACAGTGGATAGAACTAATCATCAGCTAGAAATCT 1387

Db 1021 CTGGATGAAAACTTCAAAACGATCTTCAGAGAGTTCTGTATATCCAACTCTTCCAACTT 1080

Qy 1293 GAGCAACAAACTCCACTCGAATTCGTTCAGAACACTAGAGACCCCTCCAGGCCAAT 1352

Db 1081 GAGCAACAAAACTCCACTCGAATTCGTTCAGAACACTAGAGACCCCTCCAGGCCAAT 1140

Qy 1353 ACAGTGATAGAACTAATCATCAGCTAGAA 1382

Db 1141 ACAGTGATAGAACTAATCATCAGCTAGTA 1170

RESULT 11

US-08-387-707-15

; Sequence 15, Application US/08387707

; Patent No. 6265563

; GENERAL INFORMATION:

; APPLICANT: EVANS, CHRISTOPHER J.

; APPLICANT: KEITH, DUANE E.

; TITLE OF INVENTION: OPIOID RECEPTOR GENES

; NUMBER OF SEQUENCES: 18

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: MORRISON & FOERSTER

; STREET: 2000 Pennsylvania Avenue, N.W. Suite 5500

; CITY: Washington

; STATE: DC

; COUNTRY: USA

; ZIP: 20006-1888

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; COMPUTER: IBM PC compatible

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: Patent in Release #1.0, Version #1.30

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/08/387,707

; FILING DATE: 10-SEP-1995

; CLASSIFICATION: 536

; ATTORNEY/AGENT INFORMATION:

; NAME: MURASHIGE, KATE H.

; REGISTRATION NUMBER: 29,959

; REFERENCE/DOCKET NUMBER: 22000-20526.20

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: (202) 887-1500

; TELEFAX: (202) 887-0763

; INFORMATION FOR SEQ ID NO: 15:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 1981 base pairs

; TYPE: nucleic acid

; STRANDEDNESS: single

; TOPOLOGY: linear

US-08-387-707-15

Query Match 53.1%; Score 1147; DB 3; Length 1981;

Best Local Similarity 77.5%; Pred. No. 7.1e-293;

Matches 1511; Conservative 0; Mismatches 411; Indels 28; Gaps 9;

Qy 9 GCCTATAGCGAGAGAGATCTCAGATGCTCAGCTCGCTCCCTCCGCTCAGCGCTCTC 68

Db 52 GGATACAGCAGAGAGAGATATCGGACGCTCAG-ACGTTCCATTTCTGCTCCGCTCTTC 110

Qy 69 TCTGTCTCAGCGCAGGACTGGTTTCTGTAAAGAAACAGCAGGAG-CTGTGGCAGCGCGAAA 127

Db 111 TCTGGTTCCATAGGGCTTGTCTGTAAAGAACTAGCGAGCGCTAGGCGAGCTGTGAGA 170

Qy 128 GGAAGCGGCTCAGCGGCTTGAACCCGAAAGTCTCGGTGCTCTGGGTACTCTCGCAG 187

Db 171 GGAAGAGGCTGGGGCGCTGGAAACCGAAACACTCTTGAGTGCTCTCAGTTACAGNCTACC 230

Qy 188 CGGTGCGCGCGCGCTCAGTACCATGGACGAGCGCTGCCCGCCAGCGGAGCGGAGAA 247

Db 231 GAGTCCGCGAGGAAGCATTTAGAACCATGGACGAGCGCGCGCCGAGGAAACATCAGCGA 290

Qy 248 TTGCACTGATCCCTTGGGCTACTCAAGTTGCTCCCGCAGCACCCGCGGCTTCTGGGT 307

Db 291 CTGCTCTGACCCCTTAGCTCTCTGCAAGTTGCTCCCCAGCA-----CCTGGCTCTGGCT 344

Qy 308 CAACTTTGTCCCACTTAGATGGCAACCTGTCCGACCCATGCGGTCCGAAACCGCACCAATCT 367

Db 345 CAACTTTGTCCCACTTAGATGGAAACCAAGTCCGACCCATGCGGTCTTAACCGAGGCGCT 404

Qy 368 GGGCGGAGAGACAGCCTGTGCGCTCCGACCGGAGTCCCTCCATGATCAAGGCGCATCAC 427

Db 405 TGGCGGGAAACGACAGCCTGTGCGCTCAGACCGGAGCCCTTCCATGCTCAGGCCATCAC 464

Qy 428 GATCATGGCCCTCTACTCCATCGTGGGTGGGGCTCTTGGAAACCTTCTGGTGCAT 487

Db 465 CATCATGGCCCTCTATTCTATCGTGTGTAGTGGGCTCTCTTGGAAACCTTCTGGTGCAT 524

Qy 488 GTATGTGATTGTGATACACCAAGATGAAGACTGCCACCAACATCTACATTTTCAACCT 547

Db 525 GTATGTGATTGTGATATACCAAAATGAAGACTGCCACCAACATCTACATTTTCAACCT 584

Qy 548 TGCTCTGGCAGATGCGCTTAGCCACCAAGTACCTTCCAGAGTGTGAATTAACCTAAT 607

Db 585 TGCTCTGGCAGATGCGCTTAGCCACCTAGCAGCGCTGCCCTTTTCAAGTGTTAACCTAAT 644

Qy 608 GGGAAACATGGCCATTTGGAAACCATCTTTTGCAGATAGTATCTCCATAGATTACTATAA 667

Db 645 GGGAAACGTGGCCCTTTGGAAACCATCTCTGCAAGATCGTGTCTCAATAGACTACTACA 704

Qy 668 CATGTTTACCAGCATATTACCCCTCTGCACCATGAGTGTGATCGATACATTTGCAAGTCTG 727

Db 705 CATGTTTACCAGTATCTTCAACCTCTGCACCATGAGTGTAGACCGCTACATTTGCGGCTG 764

Qy 728 CCAACCTGTCAAGGCGCTTAGATTTCCGTATCTCCCGAAATGCCAAATTTATCAATGTCTG 787

Db 765 CCAACCGGTCAAGGCGCTTGGATTTCCGTATCCCGAAATGCCAAATTTTGTCAATGTCTG 824

Qy 788 CAACTGATCTCTCTTACGCAATTTGGTCTTCTGTGTAATCTTCAATGCTCAACAAATA 847

Db 825 CAACTGATCTCTCTTCCCATTTGGTCTGCGCGTAATGTTCAATGCAACCAAAATA 884

Qy 848 CAGCAAGTTTCCATAGATTGTACATAACATTTCTCTCATCCAACTGGTACTGGGAAA 907

Db 885 CAGCAGGGTCCATAGATTGCAACCTTCACTCTCATCCACATGGTACTGGGAAA 944

Qy 908 CCTCGTGAAGATCTGTGTTTTCATTTTGGCTTCAATTTATGCGAGTGTCTCATTTACCGT 967

Db 945 CCTGCTCAAAATCTGTGCTTCTTCTGCGCTTCAATGCGCGGCTCATCATCACTGT 1004

Qy 968 GTGCTATGGAATGATGATCTTGGCCCTCAAGAGTGTCCGATGCTCTCTGCTCCAAAGA 1027

Db 1005 GTGTTATGAGTCTGATGATCTTACAGCTCAAGAGTGTCCGATGCTGTGCGGCTCCAAAGA 1064

Qy 1028 AAGGACAGGAATCTTCGAAGGATCACAGAGTGTGCTGGTGGTGGTGGTGTGTTTCAAT 1087

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Db 1185 AACCACTTCCAGACTGTTTCTTGGGACTTCTGCAATTTGCTCTAGGTTTACACAAACAGCTG 1244

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302	Db	 ATGTGATTGTAAGATACACCAAAATGAAGACTGCGACCAACATCTCAATTTTCAACCTTG	361
550	Qy	CTCTGGCAGATGCTTTAGCCACCAAGTACCTGCGCTTCCAGAGTGTGAATTACTTAATGG	609
362	Db	CTCTGGCAGACGCTTTAGCAGCAGTACACTGCGCTTTTCAGAGTGTCAACTCTGATGG	421
610	Qy	GAACATGGCCATTTGGAAACCATCTTTGCAAGATAGTGATCTCCATAGATTACTATAACA	669
422	Db	GAACATGGCCCTTCGGAAACCATCTCTGCAAGATCGTGATCTCAATAGATTACTACAACA	481
670	Qy	TGTTCAACAGATATTCACCTCTGCAACCATAGAGTGTGATTCGATCAATTCGAGTCTGCC	729
482	Db	TGTTCAACAGATATTCACCTCTGCAACCATAGAGTGTGCAACCGCTCAATTCGTCTGCC	541
730	Qy	ACCTGTGAAGCCCTTAGATTTCGGTACTCCCGAATGCGCAAAATTTCAATGCTCTGCA	789
542	Db	ACCCAGTCAAGCCCTGGAATTCGGTACCCCGAAATGCGAAATCGTCAACGTCTGCA	601
790	Qy	ACTGGATCTCTCTTCAGCCATTTGGTCTTCTGTAAATGTTCAATGGCTACCAAAAAATACA	849
602	Db	ACTGGATCTCTCTTCAGCCATCGGTCTGCTGTAAATGTTCAATGGCAACCAAAATACA	661
850	Qy	GGCAAGGTTCCATAGATTTGACATAACATTCCTCTCATCCAACTGGTATCTGGAAAAACC	909
662	Db	GGCAGGGGTCATAGATTGCAACCTCACTGCTCTCCACCCAACTGGTATCTGGGAGAAC	721
910	Qy	TCGTGAAGATCTGTGTTTTCATCTTCGCTTCATTTATGCCAGTGTCTCATTTACCGTGT	969
722	Db	TGCTCAAAATCTGTGTTTTCATCTTCGCTTCATGTCGCGGTCTCATCATCACTGTGT	781
970	Qy	GCTATGACATGATGATCTTCGCGCTCAAGAGTGTCCGATGCTCTCTGGGTCCAAAGAAA	1029
782	Db	GTTACGGCTGATGATCTTACGACTCAAGAGCGTTTCGATGCTATCGGGCTCCAAAGAAA	841
1030	Qy	AGGACAGGAATCTTCGAAAGGATCACAGGATGTTGCTGGTGGTGGTGTGTTCAATCG	1089
842	Db	AGGACAGGAATCTGCGCAGGATCACCCGGATGGTGTGGTGGTGTGCTGTATTTATCG	901
1090	Qy	TCTGCTGCACTCCCATTTACATTTACGTCATCAATTAAGCCTTTGGTTACAAATCCAGAAA	1149
902	Db	TCTGCTGCAACCCCATCCCATCTACGTCATCATCAAAAGCGTGATCAAGATTTCCAGAAA	961
1150	Qy	CTAGTTTCCAGACTGTTTCTTGGCAGTTCTGCAATGCTCTAGGTTTACAAACAGCTGCC	1209
962	Db	CCATTTTCAGACCGTTTCTGGGACCTTCTGCAATGCTTTGGGTTACCGAACAGCTGCC	1021
1210	Qy	TCAACCCAGTCTTTTATGCAATTTCTGATGAAAACTTTCAACGATGTTCTCAGAGAGTTCT	1269
1022	Db	TGAATCCAGTTCTTTACGCTTCTCTGGATGAAAACTTTCAAGCGATGCTTTCAGAGAGTTCT	1081
1270	Qy	GTATCCCAACCTCTTCCAACTTAGAGCACTTAAGCTTCACTCGCAATTCGTTCAGAACACTA	1329
1082	Db	GCATCCCAACCTCTGTCACGATCGAAACAGCAAACTCCACTCGAGTCCGTGAGAACACTA	1141
1330	Qy	GAGACCACTCCACGGCCCAATACAGTGGATAGAACTAATCATCACTAGCAAAATCTGG	1389
1142	Db	GGGAACATCCCTCCACGGCTTAACAGTGGATCGAATTAACCAACGCTTAGAAATCTGG	1201
1390	Qy	AAGCAGAAACTGCTCCGTTGCTTAAACAGGGTCTCATGCCATTTCCGACCTTCAACAACT	1449
1202	Db	AGGCAGAAACTGCTCCATTCGCTTAACTGGGCTCTCACACCATCCAGACCTCGCTAAGCT	1261
1450	Qy	TAGAAGCAACATGTATGTGGAACAGGTTGCTTCAAGATATGTAGAGGCTCTAATTC	1509
1262	Db	TAGAGGCCCATCTACGTGGAATCAGGTTGCTGTCTCAGGGTGTGTGGAGGCTCTCGGTTT	1321
1510	Qy	TCTAGGAAGTGCCTACTTTTATAGTTCATCAAACTCTTTCTCTCTCTGCGCACTCTGCTCT	1569
1322	Db	CCTGAGAAA---CCATCTGATCTCTGCAATTCAAAGTCAATTCCTCTCTGCTCTCTCACTCT	1378
1570	Qy	GCACTTTAGAGGAGCAGCCAAAAGTAAAGTGGAGCATTTTGGAAAGGAAAGGAATATACACA	1629

Db	1379	GCACATGAGAGAT---GCTCAGACTGTATCAAGTACTCAGAAAGAGAGACTACCGGACA	1435
Qy	1630	CCGAGGAGTCCAGTGTGTGCAAGACACCCAGTGG-----ACCAAAACCCATCG	1678
Db	1436	CTCTGAATCCAGCTCATGTACAGAACCATCTGAAACACCCAGTGGACCAATGCTCTG	1495
Qy	1679	TGGTATGTGTAATTGAAGTCAATATAAAGGTGACCTCTGCTGTGTAAGATTTT--ATTT	1736
Db	1496	TGGTATGTGTAATTCGAATCATCATAGAAGGTGACCCCTCTCTATGTAGAAATTTTATTTT	1555
Qy	1737	TCAAGCAAAATATTATGACCTCAACCAAGGAAGA-ACCATCTTTTGTGTAAAGTTCACCGTAG	1795
Db	1556	TCAAGCAAAATACTTATGACCTCATCAAGAGAAATAATATGCATCTGTTTAAATTCACGTAG	1615
Qy	1796	TACACATAAAGTAATAGTCTACCTCTGATCAAAAGCACCTTGAATGGNAGGTCCGAGTCTT	1855
Db	1616	TGATACATAAAGTAATAGTCTACCTCTGACCTCGACCC-----AGTCACTTCTG	1665
Qy	1856	TTTAGTGTTTTTCGAAGGGAATGAATCCATTATCTATTATTAGACTTTTAACTTTCAACTT	1915
Db	1666	TAGNAGTTCAGTCCCTTTTGTGATGGAATACATCATTTCCAACTTAAACTTTCACCTT	1725
Qy	1916	AAATATGACATCTGGGCTAAAGGATCATATTTTCACTCGCATTTCTTGTTTGTATTTGTTTA	1975
Db	1726	GAAGTTATGCTAGTTTAAGACATCAGGGGCACCTCGGTTTCTTGGTTTTGTATTTGTTTG	1785
Qy	1976	AAAAAATAACATCTCTTTTCATCTAGCTCCATTAATTTGCAAGGGAAGAGATTAGCATGAAA	2035
Db	1786	AAAGAGAGACATCTTCTCTCTTAGCTGTGTGTTGAAATGAAGGGATTGAAGCACA	1845
Qy	2036	G 2036	
Db	1846	G 1846	

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STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA (cdna)
FEATURE:
NAME/KEY: CDS
LOCATION: 214..1410
US-08-889-108-1

Query Match 50.9%; Score 1100.6; DB 3; Length 1618;
Best Local Similarity 83.4%; Pred. No. 1.2e-280;
Matches 1312; Conservative 0; Mismatches 249; Indels 12; Gaps 5;
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DB 11 GGCTACAAGCAGAGGAGAGATATCAGACGCTCAG-ACGTTCCCTTCTGCTCCGCTCTTC 69
QY 69 TCTGTCTCAGCAGGAGCTGGTTTCTGTAAGAAACAGCAGAG-CTGTGGCAGCGGGAAA 127
DB 70 TCTGGTTTCCACTAGGGCTGGTTCATGTAAAGAAATCTGACGGAGCCTTAGGGCAGCTGTGAGA 129
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QY 1388 GGAAGCAGAACTGTCTCGTTCCTTAAAGAGGTCTCATGCCATTCGACCTTCCACCAAG 1447
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; Sequence 3, Application US/08889108
; Patent No. 6103492
; GENERAL INFORMATION:
; APPLICANT: Yu, Lei
; TITLE OF INVENTION: Mu Opioid Receptors: Compositions and Methods
; NUMBER OF SEQUENCES: 17
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Arnold, White & Durkee
; STREET: P. O. Box 4433
; CITY: Houston
; STATE: TX
; COUNTRY: USA
; ZIP: 77210-4433
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/889,108
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:

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; APPLICATION NUMBER: 08/305,518
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Wilson, Mark B.
; REGISTRATION NUMBER: 37,259
; REFERENCE/DOCKET NUMBER: INDA005\WIM
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 512-418-3000
; TELEFAX: 512-474-7577
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1618 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (cdna)
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 339..1235
;
US-08-889-108-3

Query Match          50.9%; Score 1100.6; DB 3; Length 1618;
Best Local Similarity 83.4%; Pred. No. 1.2e-280;
Matches 1312; Conservative 0; Mismatches 249; Indels 12; Gaps 5;

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Job time : 369.698 secs

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: January 8, 2006, 19:36:32 ; Search time 1712.52 Seconds
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Title: US-09-883-839-1-T365

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Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 9793542 seqs, 4134689005 residues

Total number of hits satisfying chosen parameters: 19587084

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published Applications NA Main:
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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2	2158.4	99.8	2162	3	US-09-883-839-1
3	2158.4	99.8	2162	5	US-10-225-567A-185
4	2158.4	99.8	2162	6	US-10-305-720-1379
5	2158.4	99.8	2162	9	US-10-500-050-1
6	2156.8	99.8	2162	3	US-09-883-839-3
7	2156.8	99.8	2162	3	US-09-883-839-5
8	2156.8	99.8	2162	3	US-09-883-839-8
9	2145.4	99.2	2165	3	US-09-883-839-9
10	2108.8	97.5	2149	5	US-10-080-917-12
11	2097.8	97.0	2279	8	US-10-477-714-33
12	1351.8	62.5	1473	5	US-10-080-917-13
13	1343.6	62.1	1431	5	US-10-080-917-6
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26 1127 52.1 1176 3 US-09-935-061-13 Sequence 13, Appl
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34 1072.6 49.6 1610 5 US-10-283-300-16 Sequence 16, Appl
35 1022.4 47.3 1614 5 US-10-185-083-16 Sequence 17, Appl
36 994.4 46.0 1569 5 US-10-185-083-17 Sequence 15, Appl
37 992.2 45.9 1440 5 US-10-185-083-15 Sequence 24, Appl
38 921 42.6 1695 5 US-10-185-083-24 Sequence 4, Appl
39 918 42.5 1542 3 US-09-761-962-4 Sequence 4, Appl
40 918 42.5 1542 5 US-10-283-300-4 Sequence 11, Appl
41 916.6 42.4 1365 3 US-09-761-962-11 Sequence 11, Appl
42 916.6 42.4 1365 5 US-10-283-300-11 Sequence 51, Appl
43 916.6 42.4 1373 5 US-10-185-083-51 Sequence 1, Appl
44 916.6 42.4 1423 3 US-09-761-962-1 Sequence 1, Appl
45 916.6 42.4 1423 5 US-10-283-300-1 Sequence 1, Appl

ALIGNMENTS

RESULT 1

US-09-883-839-7
; Sequence 7, Application US/09883839
; Publication No. US20040209250A1

GENERAL INFORMATION:

APPLICANT: Kreek, Mary Jeanne

APPLICANT: LaForge, Karl Steven

TITLE OF INVENTION: Alleles of the Human Mu Opioid Receptor, and Methods of

TITLE OF INVENTION: Diagnostic Methods Using Said Alleles, and Methods of

TITLE OF INVENTION: Treatment Based Thereon

FILE REFERENCE: 600-1-266N

CURRENT APPLICATION NUMBER: US/09/883,839

CURRENT FILING DATE: 2001-06-18

PRIOR FILING DATE: 2000-06-16

NUMBER OF SEQ ID NOS: 10

SOFTWARE: FastSeq for Windows Version 4.0

SEQ ID NO 7

LENGTH: 2162

TYPE: DNA

ORGANISM: Homo sapiens

FEATURE:

NAME/KEY: misc feature

LOCATION: 2063..2091

OTHER INFORMATION: n = A,T,C or G

US-09-883-839-7

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Best Local Similarity 100.0% ; Pred. No. 0 ;
Matches 2162 ; Conservative 0 ; Mismatches 0 ; Indels 0 ; Gaps 0 ;

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; Publication No. US20040209250A1
; GENERAL INFORMATION:
; APPLICANT: Kreek, Mary Jeanne
; APPLICANT: LaForge, Karl Steven
; TITLE OF INVENTION: Alleles of the Human Mu Opioid Receptor,
; TITLE OF INVENTION: Diagnostic Methods Using Said Alleles, and Methods of
; TITLE OF INVENTION: Treatment Based Thereon
; FILE REFERENCE: 600-1-266N
; CURRENT APPLICATION NUMBER: US/09/883,839

; CURRENT FILING DATE: 2001-06-18
; PRIOR APPLICATION NUMBER: 60/212,225
; PRIOR FILING DATE: 2000-06-16
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; NAME/KEY: misc_feature
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; OTHER INFORMATION: n = A,T,C or G
US-09-883-839-1

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Best Local Similarity 100.0%; Pred. No. 0;
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Qy 361 CCATCTGGGCGGAGAGACAGCTGTGCGCTCCGACCGCAGTCCCTCCATGATCACGG 420
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Qy 361 CCATCTGGGCGGAGAGACAGCTGTGCGCTCCGACCGCAGTCCCTCCATGATCACGG 420
Db |||||

Qy 421 CCATCAGATCATGGCCCTCTACTCCATCGTGTGCGTGGGGCTCTTCGGAACCTTCC 480
Db |||||
Qy 421 CCATCAGATCATGGCCCTCTACTCCATCGTGTGCGTGGGGCTCTTCGGAACCTTCC 480
Db |||||

Qy 481 TGGTCAATGTATGTGATGTACAGATPACCAAGATGAAGCTGCCACCAACATCTACATTT 540
Db |||||
Qy 481 TGGTCAATGTATGTGATGTACAGATPACCAAGATGAAGCTGCCACCAACATCTACATTT 540
Db |||||

Qy 541 TCAACCTTGTCTGGCAGATGCTTAGCCACAGTACCTGCTCCCTCCAGAGTGTGAATT 600
Db |||||
Qy 541 TCAACCTTGTCTGGCAGATGCTTAGCCACAGTACCTGCTCCCTCCAGAGTGTGAATT 600
Db |||||

Qy 601 ACCTAATGGGAACATGGCCATTTGGAAACCATCTTTGCAAGATAGTGTATCTCCATAGATT 660
Db |||||
Qy 601 ACCTAATGGGAACATGGCCATTTGGAAACCATCTTTGCAAGATAGTGTATCTCCATAGATT 660
Db |||||

Qy 661 ACTATAACATGTTCCACAGCATATTCACCTCTGCACCATGAGTGTGATCGATPACATTTG 720
Db |||||
Qy 661 ACTATAACATGTTCCACAGCATATTCACCTCTGCACCATGAGTGTGATCGATPACATTTG 720
Db |||||

Qy 721 CAGTCTGCCACCTGTCAAGGCTTAGATTTCCGTACTCCCGGAAATGCCAAATATCA 780
Db |||||
Qy 721 CAGTCTGCCACCTGTCAAGGCTTAGATTTCCGTACTCCCGGAAATGCCAAATATCA 780
Db |||||

Qy 781 ATGTCGCACTGGATCTCTCTTCAGGCATTTGGTCTCTCTGTATGTTTCATGGCTACAA 840
Db |||||

Db 781 ATGTCGCACTGGATCTCTCTTCAGCCATTTGGTCTTCTGTAAATGTTTCATGGCTACAA 840
Qy 841 CAAAATACAGGCAAGGTTCATAGATTGTACACTAACTATCTCTCATCCAACTGGTACT 900
Db 841 CAAAATACAGGCAAGGTTCATAGATTGTACACTAACTATCTCTCATCCAACTGGTACT 900
Qy 901 GGGAAAACTCGTGAAGATCTGTGTTTTCATCTTCGCCCTTCATTATGCCAGTCTCATCA 960
Db 901 GGGAAAACTCGTGAAGATCTGTGTTTTCATCTTCGCCCTTCATTATGCCAGTCTCATCA 960
Qy 961 TTACCGTGTCTATGGACATGATCTTGGCCCTCAAGAGTGTCCGATGCTCTCTGGCT 1020
Db 961 TTACCGTGTCTATGGACATGATCTTGGCCCTCAAGAGTGTCCGATGCTCTCTGGCT 1020
Qy 1021 CAAAAGAAAGGACAGGAATCTTCGAAGGATCACAGGATGGTGTGGTGGTGGCTG 1080
Db 1021 CAAAAGAAAGGACAGGAATCTTCGAAGGATCACAGGATGGTGTGGTGGTGGCTG 1080
Qy 1081 TGTTCATCGTGTCTGGACTCCCATTCACATTTACATTCATTAAGCCCTTGGTTACAA 1140
Db 1081 TGTTCATCGTGTCTGGACTCCCATTCACATTTACATTCATTAAGCCCTTGGTTACAA 1140
Qy 1141 TCCCAAGAACTAGTTCAGACTGTTTCTTGGCACTTCTGCACTTCTAGGTACACAA 1200
Db 1141 TCCCAAGAACTAGTTCAGACTGTTTCTTGGCACTTCTGCACTTCTAGGTACACAA 1200
Qy 1201 ACAGCTGCCTCAACCCAGTCTTTATGCACTTCTGGATGAAACTTCAAACTGCTTCA 1260
Db 1201 ACAGCTGCCTCAACCCAGTCTTTATGCACTTCTGGATGAAACTTCAAACTGCTTCA 1260
Qy 1261 GAGAGTTCGTATTCCTCAACCTTCCAACTTCCAACTTCCAACTTCCAACTTCCAACT 1320
Db 1261 GAGAGTTCGTATTCCTCAACCTTCCAACTTCCAACTTCCAACTTCCAACTTCCAACT 1320
Qy 1321 AGAACACTAGAGACCCCTCCACGGCCAAATACAGTGGATAGAACTTAATCATCAGCTAG 1380
Db 1321 AGAACACTAGAGACCCCTCCACGGCCAAATACAGTGGATAGAACTTAATCATCAGCTAG 1380
Qy 1381 AAAATCTGGAAGCAGAACTGCTCCGTGCGCTTAAAGAGGTCTCATGCCATTCGACCTT 1440
Db 1381 AAAATCTGGAAGCAGAACTGCTCCGTGCGCTTAAAGAGGTCTCATGCCATTCGACCTT 1440
Qy 1441 CACCAAGCTTTAGAGCCCATGATGTGTGAAGCAGGTTCCTTCAAGATGTGTAGAGG 1500
Db 1441 CACCAAGCTTTAGAGCCCATGATGTGTGAAGCAGGTTCCTTCAAGATGTGTAGAGG 1500
Qy 1501 CTCTAAATCTCTAGGAAAGTGCCTACTTTTAGTCTCATCAACCTCTTTCTCTCTGGCCA 1560
Db 1501 CTCTAAATCTCTAGGAAAGTGCCTACTTTTAGTCTCATCAACCTCTTTCTCTCTGGCCA 1560
Qy 1561 CTCTGCTCTGCACATTTAGAGGAGCAGCAAAAGTAAAGTGGAGCATTTGGAAAGAAAGGAA 1620
Db 1561 CTCTGCTCTGCACATTTAGAGGAGCAGCAAAAGTAAAGTGGAGCATTTGGAAAGAAAGGAA 1620
Qy 1621 TATACCAACCCGAGGAGTCCAGTTTGTGCAAGACACCCAGTGGAAACCAAAACCCATCGT 1680
Db 1621 TATACCAACCCGAGGAGTCCAGTTTGTGCAAGACACCCAGTGGAAACCAAAACCCATCGT 1680
Qy 1681 GTATGTGAATGATCATATAAAGGTGACCCCTCTGTCTGTAAAGATTTATTTTCAA 1740
Db 1681 GTATGTGAATGATCATATAAAGGTGACCCCTCTGTCTGTAAAGATTTATTTTCAA 1740
Qy 1741 GCAAAATTTATGACCTCAACAAAGAAAGAACCATCTTTTGTAAAGTTCAACGTAAGTAA 1800
Db 1741 GCAAAATTTATGACCTCAACAAAGAAAGAACCATCTTTTGTAAAGTTCAACGTAAGTAA 1800
Qy 1801 CATAAAGTAAATGCTACTCTCTGATCAAGCACTTGAATGGAAGTCCGAGTCTTTTATAG 1860
Db 1801 CATAAAGTAAATGCTACTCTCTGATCAAGCACTTGAATGGAAGTCCGAGTCTTTTATAG 1860
Qy 1861 TGTTTTTGAAGGGAATGAATTCATTTCTTTTATTTAGACTTTTAACTTCAACTTAAAT 1920
Db 1861 TGTTTTTGAAGGGAATGAATTCATTTCTTTTATTTAGACTTTTAACTTCAACTTAAAT 1920

QY 1921 TAGCATCTGGCTAAGGCATCATTTTCACCTCCATTTCTTGGTTTGTATTTGTTTAAAAA 1980
Db 1921 TAGCATCTGGCTAAGGCATCATTTTCACCTCCATTTCTTGGTTTGTATTTGTTTAAAAA 1980
QY 1981 AATAACATCTTTTTCATCTAGCTCCATAATTGCAAGGGAAGAGATTAGCATGAAAGGTAA 2040
Db 1981 AATAACATCTTTTTCATCTAGCTCCATAATTGCAAGGGAAGAGATTAGCATGAAAGGTAA 2040
QY 2041 TGTGAACACAGTCATGTGTCTCANTCTGTAGAAAGGTTGATTCTCATGCACTNCAATACATT 2100
Db 2041 TGTGAACACAGTCATGTGTCTCANTCTGTAGAAAGGTTGATTCTCATGCACTNCAATACATT 2100
QY 2101 CCAGAGATCATCATGGGGATTTTTCATTTCTTAGGCTTTTTCAGTGGTTTGTTCCTGGAAT 2160
Db 2101 CCAGAGATCATCATGGGGATTTTTCATTTCTTAGGCTTTTTCAGTGGTTTGTTCCTGGAAT 2160
QY 2161 TC 2162
Db 2161 TC 2162
RESULT 3
US-10-225-567A-185
; Sequence 185, Application US/10225567A
; Publication No. US20030113798A1
; GENERAL INFORMATION:
; APPLICANT: Lifespan Biosciences
; APPLICANT: Brown, Joseph P.
; APPLICANT: Burmer, Glenna C.
; APPLICANT: Roush, Christine L.
; TITLE OF INVENTION: ANTIGENIC PEPTIDES AND ANTIBODIES FOR G PROTEIN-COUPLED RECEPTORS
; FILE REFERENCE: 1920-4-4
; CURRENT APPLICATION NUMBER: US/10/225,567A
; CURRENT FILING DATE: 2001-12-19
; PRIOR APPLICATION NUMBER: 60/257,144
; PRIOR FILING DATE: 2000-12-19
; NUMBER OF SEQ ID NOS: 2292
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 185
; LENGTH: 2162
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (2063)..(2063)
; OTHER INFORMATION: unknown nucleotide
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (2091)..(2091)
; OTHER INFORMATION: unknown nucleotide
US-10-225-567A-185
Query Match 99.8%; Score 2158.4; DB 5; Length 2162;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 2161; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 1 GGAATTCGGCTATAGGCGAGAGAGAAATGTCAGATGCTCAGCTCGGTCCCTCCGCTGA 60
Db 1 GGAATTCGGCTATAGGCGAGAGAGAAATGTCAGATGCTCAGCTCGGTCCCTCCGCTGA 60
QY 61 CGCTCTCTCTGTCTCAGCCAGACTGGTTTCTGTAAGAAACAGCAGGAGCTGTGGCAGC 120
Db 61 CGCTCTCTCTGTCTCAGCCAGACTGGTTTCTGTAAGAAACAGCAGGAGCTGTGGCAGC 120
QY 121 GGGGAAAGGAGCGGCTGAGCGCTTGGAAACCGAAAAAGTCTCGGTGCTCCTGGCTACCT 180
Db 121 GGGGAAAGGAGCGGCTGAGCGCTTGGAAACCGAAAAAGTCTCGGTGCTCCTGGCTACCT 180
QY 181 CGCACAGCGGTGCCCGCCCGCGCTCAGTACCATGGAACAGCAGCGCTGCCCGCCACGAAAG 240
Db 181 CGCACAGCGGTGCCCGCCCGCGCTCAGTACCATGGAACAGCAGCGCTGCCCGCCACGAAAG 240

QY 241 CCAGCAATTGCACCTGATGCTTTGGGTACTCAAGTTGCTCCCCAGCACCCAGCCCCGGTT 300
Db 241 CCAGCAATTGCACCTGATGCTTTGGGTACTCAAGTTGCTCCCCAGCACCCAGCCCCGGTT 300
QY 301 CCTGGGTCAAATTGTGCCACCTTAGATGGCAACCTGTCCGACCCATGCGGTCCGAACCGCA 360
Db 301 CCTGGGTCAAATTGTGCCACCTTAGATGGCAACCTGTCCGACCCATGCGGTCCGAACCGCA 360
QY 361 CCAATCTGGGGGAGAGACAGCCTGTGCCCTCCGACCGGAGTCCCTCCATGATCACGG 420
Db 361 CCAATCTGGGGGAGAGACAGCCTGTGCCCTCCGACCGGAGTCCCTCCATGATCACGG 420
QY 421 CCATCAGCATCATGGCCCTCTACTCCATCGTGTGGTGGTGGGGCTCTTCGAAAACTTCC 480
Db 421 CCATCAGCATCATGGCCCTCTACTCCATCGTGTGGTGGTGGGGCTCTTCGAAAACTTCC 480
QY 481 TGGTCATGTATGTGATTGTTCAGATACACCAAGATGAAGACTGCCACCAACATCTACATTT 540
Db 481 TGGTCATGTATGTGATTGTTCAGATACACCAAGATGAAGACTGCCACCAACATCTACATTT 540
QY 541 TCAACCTTGTCTGTGCAGATGCTTTAGCCACAGTACCTGCCCTTCCAGAGTGTGAATT 600
Db 541 TCAACCTTGTCTGTGCAGATGCTTTAGCCACAGTACCTGCCCTTCCAGAGTGTGAATT 600
QY 601 ACCTAATGGGAACATGGCCATTTGGAAACCATCTCTTTGCAAGATAGTGATCTCCATAGATT 660
Db 601 ACCTAATGGGAACATGGCCATTTGGAAACCATCTCTTTGCAAGATAGTGATCTCCATAGATT 660
QY 661 ACTAATAAGTTCACAGCATATTTCACCTCTGCACCATGAGTGTGATCATGATATG 720
Db 661 ACTAATAAGTTCACAGCATATTTCACCTCTGCACCATGAGTGTGATCATGATATG 720
QY 721 CAGTCTGCCACCTGTCAAGGCTTTAGATTTCGGTACTCCCGAAATGCAAAATATCA 780
Db 721 CAGTCTGCCACCTGTCAAGGCTTTAGATTTCGGTACTCCCGAAATGCAAAATATCA 780
QY 781 ATGTCTGCAACTGGATCTCTCTTCAGCCATTGGTCTTCTCTGTAATGTTTCATGGCTACAA 840
Db 781 ATGTCTGCAACTGGATCTCTCTTCAGCCATTGGTCTTCTCTGTAATGTTTCATGGCTACAA 840
QY 841 CAAAATACAGGCAAGGTTCCATAGATTGTACACTAACATTCTCTCATCCAACTGGTACT 900
Db 841 CAAAATACAGGCAAGGTTCCATAGATTGTACACTAACATTCTCTCATCCAACTGGTACT 900
QY 901 GGGGAAACCTCGTGAAGATCTGTGTTTCATCTTCGCTTCATTTATGCGCAGTGTCTATCA 960
Db 901 GGGGAAACCTCGTGAAGATCTGTGTTTCATCTTCGCTTCATTTATGCGCAGTGTCTATCA 960
QY 961 TTACCGTGTGCTATGAGACTGATGATCTTGGCGCTCAAGAGTGTCCGATGCTCTCTGGCT 1020
Db 961 TTACCGTGTGCTATGAGACTGATGATCTTGGCGCTCAAGAGTGTCCGATGCTCTCTGGCT 1020
QY 1021 CCAAGAAAGGACAGGAATCTTCAAGGATCACCAGGATGGTGGTGGTGGTGGCTG 1080
Db 1021 CCAAGAAAGGACAGGAATCTTCAAGGATCACCAGGATGGTGGTGGTGGTGGCTG 1080
QY 1081 TGTTCATCTGTCTGGACTCCCATTTACATTTAGTCACTAATAAGCTTTGGTTTACAA 1140
Db 1081 TGTTCATCTGTCTGGACTCCCATTTACATTTAGTCACTAATAAGCTTTGGTTTACAA 1140
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Db 1141 TCCAGAAACTACTAGTTCCAGACTGTTTCTTGGCACTTCTGCAATGCTTAGGTTACACAA 1200
QY 1201 ACAGTGTCTCAACCCAGTCTTTATGATTTTCTGATGAAATCTTCAAAACGATGTTCA 1260
Db 1201 ACAGTGTCTCAACCCAGTCTTTATGATTTTCTGATGAAATCTTCAAAACGATGTTCA 1260
QY 1261 GAGAGTCTGTATCCCACTCTTCCAACTTGGACCAAACTCCACTCGAATTCGTC 1320
Db 1261 GAGAGTCTGTATCCCACTCTTCCAACTTGGACCAAACTCCACTCGAATTCGTC 1320
QY 1321 AGAACACTAGAGACCAACCCCTCCACGGCCAATACAGTGGATAGAACTAATCATCAGTAG 1380

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Db 1321 AGAACATAGAGACCACTCCACGCGCCATACAGTGGATAGAACTAATCATCAGCTAG 1380
Qy 1381 AAAATCGGAAGCAGAACTGCTCCGTTGGCCCTAACAGGGTCTCATGCCATTCCGACCTT 1440
Db 1381 AAAATCTGGAAGCAGAACTGCTCCGTTGGCCCTAACAGGGTCTCATGCCATTCCGACCTT 1440
Qy 1441 CACCAAGCTTAGAGCCACCATTGATGTGGAAGCAGGTTCCTTCAAGAAATGTGTAGGAGG 1500
Db 1441 CACCAAGCTTAGAAGCCACCATTGATGTGGAAGCAGGTTCCTTCAAGAAATGTGTAGGAGG 1500
Qy 1501 CTCTAAATCTCTAGGAAAGTCCCTACTTTTAGGTTCATCCAACTCTTCTCTCTGSCCA 1560
Db 1501 CTCTAAATCTCTAGGAAAGTCCCTACTTTTAGGTTCATCCAACTCTTCTCTCTGSCCA 1560
Qy 1561 CTCTGCTCTGCATATTAGAGGAGCAGCCAAAAGTAAGTGGAGCATTTTGGAAAGGAA 1620
Db 1561 CTCTGCTCTGCATATTAGAGGAGCAGCCAAAAGTAAGTGGAGCATTTTGGAAAGGAA 1620
Qy 1621 TATACCACACGAGAGTCCAGTTTGTGCAAGACACCCAGTGGAAACCAAAACCCATCGTG 1680
Db 1621 TATACCACACGAGAGTCCAGTTTGTGCAAGACACCCAGTGGAAACCAAAACCCATCGTG 1680
Qy 1681 GTATGTGAATTAAGTCAATATAAAGGTGACCCCTTCTGCTGTAAGATTTTATTTCAA 1740
Db 1681 GTATGTGAATTAAGTCAATATAAAGGTGACCCCTTCTGCTGTAAGATTTTATTTCAA 1740
Qy 1741 GCAAAATATTTATGACCTCAACAAAGAAAGAACCATCTTTTGTAAAGTTTACCGTAGTAACA 1800
Db 1741 GCAAAATATTTATGACCTCAACAAAGAAAGAACCATCTTTTGTAAAGTTTACCGTAGTAACA 1800
Qy 1801 CATAAAGTAATGCTACCTCTGATCAAGACACCTTGAATGGAAGTCCGAGTCTTTTAG 1860
Db 1801 CATAAAGTAATGCTACCTCTGATCAAGACACCTTGAATGGAAGTCCGAGTCTTTTAG 1860
Qy 1861 TGTTTTTCAGAGGAATGAATCCATTTCTATTTTAGACTTTTAACTTCAACTTAAAT 1920
Db 1861 TGTTTTTCAGAGGAATGAATCCATTTCTATTTTAGACTTTTAACTTCAACTTAAAT 1920
Qy 1921 TAGCATCTGGCTAAGGCATCATTTTCACTCCATTTCTGTTTGTATTTTAAATAA 1980
Db 1921 TAGCATCTGGCTAAGGCATCATTTTCACTCCATTTCTGTTTGTATTTTAAATAA 1980
Qy 1981 AATAACATCTCTTTCATCTAGCTCATAATTGCAAGGAGAGATTAGCATGAAAGGTAA 2040
Db 1981 AATAACATCTCTTTCATCTAGCTCATAATTGCAAGGAGAGATTAGCATGAAAGGTAA 2040
Qy 2041 TCTGAAACACAGTCATGTCANCTGTAGAAAGGTTGATTTCTCATGCACTNCAATACTT 2100
Db 2041 TCTGAAACACAGTCATGTCANCTGTAGAAAGGTTGATTTCTCATGCACTNCAATACTT 2100
Qy 2101 CCAAGAGTCATCATGGGGGATTTTTCATTTCTTAGGCTTTTCAAGTGGTTTCTCTGGAA 2160
Db 2101 CCAAGAGTCATCATGGGGGATTTTTCATTTCTTAGGCTTTTCAAGTGGTTTCTCTGGAA 2160
Qy 2161 TC 2162
Db 2161 TC 2162
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RESULT 4
US-10-305-720-1379
; Sequence 1379, Application US/10305720
; Publication No. US20040010136A1
; GENERAL INFORMATION:
; APPLICANT: Au-Young, Janice K.; Seilhamer, Jeffrey J
; TITLE OF INVENTION: Composition for the Detection of Signaling Pathway Gene Expression
; FILE REFERENCE: PA-0002-1 CON
; CURRENT APPLICATION NUMBER: US/10/305,720
; CURRENT FILING DATE: 2002-11-26
; PRIOR APPLICATION NUMBER: 09/016,434
; PRIOR FILING DATE: 1998-01-30
; NUMBER OF SEQ ID NOS: 1490

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; SOFTWARE: PERL Program
; SEQ ID NO 1379
; LENGTH: 2162
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; OTHER INFORMATION: GenBank ID No. US20040010136A1 9452072
; NAME/KEY: unsure
; LOCATION: (1) ... (2162)
; OTHER INFORMATION: a, t, c, g, or other
US-10-305-720-1379

Query Match      99.8%; Score 2158.4; DB 6; Length 2162;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 2161; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 GGAATTCGGCTATAGGCAGAGGAGAAATGTCAGATGCTCAGTCTCGTCCCTCCGCTGA 60
Db 1 GGAATTCGGCTATAGGCAGAGGAGAAATGTCAGATGCTCAGTCTCGTCCCTCCGCTGA 60
Qy 61 CGCTCCTCTCTGTCAGCCAGGACTGGTTTCTGTAGAAACAGCAGAGAGCTGTGGCAGC 120
Db 61 CGCTCCTCTCTGTCAGCCAGGACTGGTTTCTGTAGAAACAGCAGAGAGCTGTGGCAGC 120
Qy 121 GCGGAAAGGAGCGGCTGAGCGCTTGGAAACCCGAAAGTCTCGGTGCTCTCTGGCTACCT 180
Db 121 GCGGAAAGGAGCGGCTGAGCGCTTGGAAACCCGAAAGTCTCGGTGCTCTCTGGCTACCT 180
Qy 181 CGCACAGCGGTGCGCCGCGCTCAGTACCATGGAAGAGCGCTGCCCCCAGCAACG 240
Db 181 CGCACAGCGGTGCGCCGCGCTCAGTACCATGGAAGAGCGCTGCCCCCAGCAACG 240
Qy 241 CAGCAATTCGACTGATGCTTGGCGTACTCAAGTTGCTCCCGAGCACCAGCCCGGTT 300
Db 241 CAGCAATTCGACTGATGCTTGGCGTACTCAAGTTGCTCCCGAGCACCAGCCCGGTT 300
Qy 301 CCTGGGTCAACTTGTCCCACTTAGATGGCAACCTGTCCGACCCATCGGGTCCGAAACGCA 360
Db 301 CCTGGGTCAACTTGTCCCACTTAGATGGCAACCTGTCCGACCCATCGGGTCCGAAACGCA 360
Qy 361 CCAATCTGGGCGGAGAGACAGCGCTGTCCCTCCGACCGGAGTCCCTCCATGATCAGG 420
Db 361 CCAATCTGGGCGGAGAGACAGCGCTGTCCCTCCGACCGGAGTCCCTCCATGATCAGG 420
Qy 421 CCATCAGATCATGCGCCCTCTACTCCATCGTGTGGTGGGCTCTTCGGAACCTTCC 480
Db 421 CCATCAGATCATGCGCCCTCTACTCCATCGTGTGGTGGGCTCTTCGGAACCTTCC 480
Qy 481 TGGTCATGATGATGTCAGATACACCAAGATGAAGACTGCCACCAACATCTACATTT 540
Db 481 TGGTCATGATGATGTCAGATACACCAAGATGAAGACTGCCACCAACATCTACATTT 540
Qy 541 TCAACCTTGTCTCGCAGATGCTTAGCCACAGTACCTTCCCTTCCAGAGTGTGAATT 600
Db 541 TCAACCTTGTCTCGCAGATGCTTAGCCACAGTACCTTCCCTTCCAGAGTGTGAATT 600
Qy 601 ACCTAATGGGAACATGGCCATTTGGAAACCATCTTTTGAAGATAGTGTCTCCATAGATT 660
Db 601 ACCTAATGGGAACATGGCCATTTGGAAACCATCTTTTGAAGATAGTGTCTCCATAGATT 660
Qy 661 ACTATAACATGTTTCAACGAGCATATTCACCTCTCCACCATGAGTGTGATCGATACATTG 720
Db 661 ACTATAACATGTTTCAACGAGCATATTCACCTCTCCACCATGAGTGTGATCGATACATTG 720
Qy 721 CAGTCTGCACCTGTCAAGGCCCTTAGAATTTCCGTACTCCCGGAAATGCCAAAATATCA 780
Db 721 CAGTCTGCACCTGTCAAGGCCCTTAGAATTTCCGTACTCCCGGAAATGCCAAAATATCA 780
Qy 781 ATGTCGCACTGGATCTCTCTTCAAGCATTGTGTTCTCTGTAATGTTTCAATGGCTACAA 840
Db 781 ATGTCGCACTGGATCTCTCTTCAAGCATTGTGTTCTCTGTAATGTTTCAATGGCTACAA 840
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QY 841 CAAAATACAGGCAAGCTCCATAGATTGTACACTAACATTTCTCTCATCCAACTCGTACT 900
DB 841 CAAAATACAGGCAAGGTTCCATAGATTGTACACTAACATTTCTCTCATCCAACTCGTACT 900
QY 901 GGGAAACCTCGTGAAGACTCTGTGTTTTCATCTTCGCCCTTCATTTATGCCAGTGCTCATCA 960
DB 901 GGGAAACCTCGTGAAGACTCTGTGTTTTCATCTTCGCCCTTCATTTATGCCAGTGCTCATCA 960
QY 961 TTACCGTGTGCTATGACTGATGATCTTGGGCTTCAAGAGTGTCCGATGCTCTCTGGCT 1020
DB 961 TTACCGTGTGCTATGACTGATGATCTTGGGCTTCAAGAGTGTCCGATGCTCTCTGGCT 1020
QY 1021 CCAAGAAAGGACAGGAATCTTCGAAGGATCACACAGGATGCTGTGTTGGTGGCTG 1080
DB 1021 CCAAGAAAGGACAGGAATCTTCGAAGGATCACACAGGATGCTGTGTTGGTGGCTG 1080
QY 1081 TGTTCATCGTCTGCTGGACTCCCATTCACATTTACGTCATCATTTAAAGCTTTGGTTACAA 1140
DB 1081 TGTTCATCGTCTGCTGGACTCCCATTCACATTTACGTCATCATTTAAAGCTTTGGTTACAA 1140
QY 1141 TCCAGAAACTAGTTCAGACTGTTTCTTGGCACTTCTGCAATGCTCTAGGTTACAA 1200
DB 1141 TCCAGAAACTAGTTCAGACTGTTTCTTGGCACTTCTGCAATGCTCTAGGTTACAA 1200
QY 1201 ACAGCTGCCTCAACCCAGTCCCTTTATGCAATTTCTGGATGAAACTTCAACAGATGTTCA 1260
DB 1201 ACAGCTGCCTCAACCCAGTCCCTTTATGCAATTTCTGGATGAAACTTCAACAGATGTTCA 1260
QY 1261 GAGAGTTCGTATPCCCAACTCTTCCAACTTGAGCAACAAACTCCACTCGAATTCGTC 1320
DB 1261 GAGAGTTCGTATCCCAACTCTTCCAACTTGAGCAACAAACTCCACTCGAATTCGTC 1320
QY 1321 AGAACACTAGAGACCAACCCCTCCACGGCCAAATACAGTGGATAGAACTAATCATCACTAG 1380
DB 1321 AGAACACTAGAGACCAACCCCTCCACGGCCAAATACAGTGGATAGAACTAATCATCACTAG 1380
QY 1381 ARAATCTGAGCAGAACTGCTCCGTTGCCCTTAACAGAGTCTCATGCCATTCGACCTT 1440
DB 1381 ARAATCTGAGCAGAACTGCTCCGTTGCCCTTAACAGAGTCTCATGCCATTCGACCTT 1440
QY 1441 CACCAAGCTTAGAAGCACCACATGTATGTGGAAGCAGGTTCCTTCAAGAATGTGTAGAGG 1500
DB 1441 CACCAAGCTTAGAAGCACCACATGTATGTGGAAGCAGGTTCCTTCAAGAATGTGTAGAGG 1500
QY 1501 CTCCTAATCTTAGGAAAGTGCTACTTTTAGGTATCCAACTCTTCTCTCTGTGGCCA 1560
DB 1501 CTCCTAATCTTAGGAAAGTGCTACTTTTAGGTATCCAACTCTTCTCTCTGTGGCCA 1560
QY 1561 CTCTGCTCTGCACATTTAGAGGACAGCCAAAGTAAAGTGGAGCATTTGGAAGGAAGGAA 1620
DB 1561 CTCTGCTCTGCACATTTAGAGGACAGCCAAAGTAAAGTGGAGCATTTGGAAGGAAGGAA 1620
QY 1621 TATACACACCGAGGAGTCCAGTTTGTGCAAGACACCCAGTGGAAACCAAAACCCATCGTG 1680
DB 1621 TATACACACCGAGGAGTCCAGTTTGTGCAAGACACCCAGTGGAAACCAAAACCCATCGTG 1680
QY 1681 GTATGTGAATTTGAAGTCAATATAAAGGTGACCCCTCTGTCTGTAAGATTTTATTTCAA 1740
DB 1681 GTATGTGAATTTGAAGTCAATATAAAGGTGACCCCTCTGTCTGTAAGATTTTATTTCAA 1740
QY 1741 GCNAATATTATGACCTCAACAAAGAAACCATCTTTTGTAAAGTTTCCCGTAGTAACA 1800
DB 1741 GCNAATATTATGACCTCAACAAAGAAACCATCTTTTGTAAAGTTTCCCGTAGTAACA 1800
QY 1801 CATAAAGTAAATGCTACCTCTGATCAAGACACCTTGAATGGAGGTCGAGTCTTTTTAG 1860
DB 1801 CATAAAGTAAATGCTACCTCTGATCAAGACACCTTGAATGGAGGTCGAGTCTTTTTAG 1860
QY 1861 TGTTTTTGCAAGGGAATGAATCCATTTATTTATTTAGACTTTTAACTTTCAACTTAAAAAT 1920
DB 1861 TGTTTTTGCAAGGGAATGAATCCATTTATTTATTTAGACTTTTAACTTTCAACTTAAAAAT 1920

RESULT 5

US-10-500-050-1
; Sequence 1, Application US/10500050
; Publication No. US20050106568A1
; GENERAL INFORMATION:
; APPLICANT: Takeda Chemical Industries, Ltd.
; TITLE OF INVENTION: Method of Quantifying Nucleic Acid And Kit for Quantifying Nucleic Acid
; FILE REFERENCE: P02-0156
; CURRENT APPLICATION NUMBER: US/10/500,050
; CURRENT FILING DATE: 2004-06-25
; PRIOR APPLICATION NUMBER: JP 2001-400280
; PRIOR FILING DATE: 2001-12-28
; NUMBER OF SEQ ID NOS: 10
; SEQ ID NO 1
; LENGTH: 2162
; TYPE: DNA
; ORGANISM: Human
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: 2063.. 2091
; OTHER INFORMATION: n stands for any base
US-10-500-050-1

Query Match 99.8%; Score 2158.4; DB 9; Length 2162;

Best Local Similarity 100.0%; Pred. No. 0;
Matches 2161; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 GGAATTCGGCTATAGGCAGAGGAGAAATGTCAAGATGCTCAGCTCCGTCCTCCCTCCGCTGA 60
DB 1 GGAATTCGGCTATAGGCAGAGGAGAAATGTCAAGATGCTCAGCTCCGTCCTCCCTCCGCTGA 60
QY 61 CGCTCTCTCTCTCAGCCAGGACTGGTTTCTGTAAAGAAACAGACAGGAGCTGTGGCAGC 120
DB 61 CGCTCTCTCTCTCAGCCAGGACTGGTTTCTGTAAAGAAACAGACAGGAGCTGTGGCAGC 120
QY 121 GCGGAAAGGAAGCGGCTGAGGCGCTTGGAAACCGGAAAGTCTCGGTGCTCCTGGCTACCT 180
DB 121 GCGGAAAGGAAGCGGCTGAGGCGCTTGGAAACCGGAAAGTCTCGGTGCTCCTGGCTACCT 180
QY 181 CGCACAGCGGTGCCCGCCCGCGCTCAGTACCATGGACAGCAGCGCTGCCCCACCAACG 240
DB 181 CGCACAGCGGTGCCCGCCCGCGCTCAGTACCATGGACAGCAGCGCTGCCCCACCAACG 240
QY 241 CCAGCAATTTGCACTGATGCCCTTTGGGCTACTCAAGTTGCTCCCGACAGCCAGCCCCGGTT 300
DB 241 CCAGCAATTTGCACTGATGCCCTTTGGGCTACTCAAGTTGCTCCCGACAGCCAGCCCCGGTT 300
QY 301 CTTGGGTCAACTGTGTCCTTGTAGTGGCAACTGTGCCGACCATGCGGTCCGAAACCGCA 360
DB 301 CTTGGGTCAACTGTGTCCTTGTAGTGGCAACTGTGCCGACCATGCGGTCCGAAACCGCA 360
QY 361 CCAATCTGGGCGGAGAGACAGCAGCTGTGCCCTCCGACCGGCGAGTCCCTCCATGATCACGG 420

; NAME/key: misc feature									
; LOCATION: 2063_2091									
; OTHER INFORMATION: n = A, T, C or G									
US-09-883-839-3									
Query Match 99.8%; Score 2156.8; DB 3; Length 2162;									
Best Local Similarity 99.9%; Pred. No. 0;									
Matches 2160; Conservative 0; Mismatches 2; Indels 0; Gaps 0;									
QY	1	GGAAATTCGGCTATAGCGAGAGAGAAATGT	CAGATGCTCAGCTCGGTCCCTCCGCTGA	60					
DB	1	GGAAATTCGGCTATAGCGAGAGAGAAATGT	CAGATGCTCAGCTCGGTCCCTCCGCTGA	60					
QY	61	CGCTCCTCTCTGTCTCAGCCAGGACTGGTTT	CTGTAAGAAAACAGCAGGAGCTGTGCAGC	120					
DB	61	CGCTCCTCTCTGTCTCAGCCAGGACTGGTTT	CTGTAAGAAAACAGCAGGAGCTGTGCAGC	120					
QY	121	GGCGAAAGGAAGCGGCTGAGGCGCTTTGGAA	CCCGAAAAGTCTCGGTGCTCCTGGCTACCT	180					
DB	121	GGCGAAAGGAAGCGGCTGAGGCGCTTTGGAA	CCCGAAAAGTCTCGGTGCTCCTGGCTACCT	180					
QY	181	CGCAGCGGTGCCCGCCGCGCGCTCAGTACCA	TGACAGCAGCGCTGCCCGCCACGAAACG	240					
DB	181	CGCAGCAGCGGTGCCCGCCGCGCGCTCAGTAC	CAATGACAGCAGCGCTGCCCGCCACGAAACG	240					
QY	241	CCAGCAATTCGACTGATGCTTGGCGTACTCT	CAAGTTTGCTCCCGCAGCACCGGCCGTT	300					
DB	241	CCAGCAATTCGACTGATGCTTGGCGTACTCT	CAAGTTTGCTCCCGCAGCACCGGCCGTT	300					
QY	301	CTGGGTCAACTTGTCTCCCACTTAGATGGCA	ACCTGTCCGACCCGATCGGTCCGATCACGG	360					
DB	301	CTGGGTCAACTTGTCTCCCACTTAGATGGCA	ACCTGTCCGACCCGATCGGTCCGATCACGG	360					
QY	361	CAAATCTGGCGGGAAGACAGCCTGTGCCCT	CCGACCGGAGCTCCTCGATGATCACGG	420					
DB	361	CAAATCTGGCGGGAAGACAGCCTGTGCCCT	CCGACCGGAGCTCCTCGATGATCACGG	420					
QY	421	CCATCAGATCATGGCGCTCTACTCCATCGTG	CGTGGTGGGCTCTTCGGAACCTTCC	480					
DB	421	CCATCAGATCATGGCGCTCTACTCCATCGTG	CGTGGTGGGCTCTTCGGAACCTTCC	480					
QY	481	TGCTCATGTATGTGATTTGTGATGATGATG	ATGATGATGATGATGATGATGATGATGAT	540					
DB	481	TGCTCATGTATGTGATTTGTGATGATGATG	ATGATGATGATGATGATGATGATGATGAT	540					
QY	541	TCAACCTTGTCTGGCAGATGCTTAGCCACCA	GTACCCCTTCCAGAGTGTGAAT	600					
DB	541	TCAACCTTGTCTGGCAGATGCTTAGCCACCA	GTACCCCTTCCAGAGTGTGAAT	600					
QY	601	ACCTAATGGGAACATGGCCATTTGGAAACCA	TCTTTGCAAGATAGTGATCTCCATAGATT	660					
DB	601	ACCTAATGGGAACATGGCCATTTGGAAACCA	TCTTTGCAAGATAGTGATCTCCATAGATT	660					
QY	661	ACTATAACATGTTTCAACAGCATATTCACCT	CTGSCACCATGAGTGTGTGATCGATACATTG	720					
DB	661	ACTATAACATGTTTCAACAGCATATTCACCT	CTGSCACCATGAGTGTGTGATCGATACATTG	720					
QY	721	CAGTCTGCCACCTGTCAAGGCCTTAGATTT	CGGTACCTCCCGAATGCCCCAAATTTATCA	780					
DB	721	CAGTCTGCCACCTGTCAAGGCCTTAGATTT	CGGTACCTCCCGAATGCCCCAAATTTATCA	780					
QY	781	ATGCTGTGCACTGGATCTCTCTTCAGCCAT	TGGTCTTCTGTAATGTTTCATGGCTACAA	840					
DB	781	ATGCTGTGCACTGGATCTCTCTTCAGCCAT	TGGTCTTCTGTAATGTTTCATGGCTACAA	840					
QY	841	CAAAATACAGGCAAGGTTTCCATAGATTGTA	CACATAACATTTCTCATCCAACTGGTACT	900					
DB	841	CAAAATACAGGCAAGGTTTCCATAGATTGTA	CACATAACATTTCTCATCCAACTGGTACT	900					
QY	901	GGGAAACCTCTGTGGAAGATCTGTGTTTT	CACTTTCGCTTCATTTGCGAGTCTCATCA	960					
DB	901	GGGAAACCTCTGTGGAAGATCTGTGTTTT	CACTTTCGCTTCATTTGCGAGTCTCATCA	960					

QY	961	TTACCGTGTGCTATGAGCTGATGATCTTTG	CGCCTCAAGAGTGTCCGATGCTCTCGGCT	1020					
DB	961	TTACCGTGTGCTATGAGCTGATGATCTTTG	CGCCTCAAGAGTGTCCGATGCTCTCGGCT	1020					
QY	1021	CCAAAGAAAAGGACAGGAACTTTCAAGGAT	CACAGGATGCTGTGGTGGTGGCTG	1080					
DB	1021	CCAAAGAAAAGGACAGGAACTTTCAAGGAT	CACAGGATGCTGTGGTGGTGGCTG	1080					
QY	1081	TGTTTCATCGTCTGTGGACTCCCATTTCA	CATTTAGCTCATTAAGAGCTTGTGTTACAA	1140					
DB	1081	TGTTTCATCGTCTGTGGACTCCCATTTCA	CATTTAGCTCATTAAGAGCTTGTGTTACAA	1140					
QY	1141	TCCAGAAAACACTAGTTCAGACTGTTTCT	TGACACTTCTGCAATGCTCTAGGTTACAA	1200					
DB	1141	TCCAGAAAACACTAGTTCAGACTGTTTCT	TGACACTTCTGCAATGCTCTAGGTTACAA	1200					
QY	1201	ACAGTGCCTCAACCCAGTCTTTATGCAAT	TTCTGATGAAACCTTCAACGATGTTCA	1260					
DB	1201	ACAGTGCCTCAACCCAGTCTTTATGCAAT	TTCTGATGAAACCTTCAACGATGTTCA	1260					
QY	1261	GAGAGTTCTGTATCCCAACTCTTCCAAC	ATTGAGCAACAAACCTCACTCGAATCGTC	1320					
DB	1261	GAGAGTTCTGTATCCCAACTCTTCCAAC	ATTGAGCAACAAACCTCACTCGAATCGTC	1320					
QY	1321	AGAACACTAGAGACCAACCCCTCCA	CGGCCAATACAGTGATAGAACTAATCAT	1380					
DB	1321	AGAACACTAGAGACCAACCCCTCCA	CGGCCAATACAGTGATAGAACTAATCAT	1380					
QY	1381	AAAACTGGAGCAGAAACTGCTCGTTCG	TGCTTACAGGGTCTCATGCCGACCTT	1440					
DB	1381	AAAACTGGAGCAGAAACTGCTCGTTCG	TGCTTACAGGGTCTCATGCCGACCTT	1440					
QY	1441	CACCAAGCTTAGAAGCCACCATGTATG	TGGAAGCAGGTTGCTTCAAGATGTGAGGAG	1500					
DB	1441	CACCAAGCTTAGAAGCCACCATGTATG	TGGAAGCAGGTTGCTTCAAGATGTGAGGAG	1500					
QY	1501	CTCTAATTTCTTAGGAAAGTGCTACTTT	TAGGTCATCAACCTCTTCTCTGGCCA	1560					
DB	1501	CTCTAATTTCTTAGGAAAGTGCTACTTT	TAGGTCATCAACCTCTTCTCTGGCCA	1560					
QY	1561	CTCTGCTGTGACATTTAGAGGACAGCC	AAAGTAAGTGAGGACATTTGGAAGAAAGAA	1620					
DB	1561	CTCTGCTGTGACATTTAGAGGACAGCC	AAAGTAAGTGAGGACATTTGGAAGAAAGAA	1620					
QY	1621	TATACACACCCAGGAGTCCAGTTTGTG	CAAGACACCCAGTGGAACCCATCGTG	1680					
DB	1621	TATACACACCCAGGAGTCCAGTTTGTG	CAAGACACCCAGTGGAACCCATCGTG	1680					
QY	1681	GTATGTGAATTGAAGTTCATATAAAG	GTGACCTTCTGTGAAGATTTTATTTCAA	1740					
DB	1681	GTATGTGAATTGAAGTTCATATAAAG	GTGACCTTCTGTGAAGATTTTATTTCAA	1740					
QY	1741	GCAATATTTATGACCTCAACAAAGAA	ACCATCTTTTGTAAAGTTTCCCGTAGTACA	1800					
DB	1741	GCAATATTTATGACCTCAACAAAGAA	ACCATCTTTTGTAAAGTTTCCCGTAGTACA	1800					
QY	1801	CATAAGTAAATGCTTACCTCTGATCAA	AGCACCTTGAATGGAAGGTCGAGTCTTTAG	1860					
DB	1801	CATAAGTAAATGCTTACCTCTGATCAA	AGCACCTTGAATGGAAGGTCGAGTCTTTAG	1860					
QY	1861	TGTTTTTGCAGGGAATGAATCCATTTAT	TATTTTGTAGCTTTTAACTTTTAACTTAAAT	1920					
DB	1861	TGTTTTTGCAGGGAATGAATCCATTTAT	TATTTTGTAGCTTTTAACTTTTAACTTAAAT	1920					
QY	1921	TAGCATCTGGCTTAAGGCATCATTTTCA	CTCCTTCTTGGTTTGTATTTTAAATAA	1980					
DB	1921	TAGCATCTGGCTTAAGGCATCATTTTCA	CTCCTTCTTGGTTTGTATTTTAAATAA	1980					
QY	1981	AATAACATCTCTTTCATCTAGCTCCAT	TAATTCGAAGGAGAGATTAGCATGAAAGTAA	2040					
DB	1981	AATAACATCTCTTTCATCTAGCTCCAT	TAATTCGAAGGAGAGATTAGCATGAAAGTAA	2040					
QY	2041	TCTGAAACACAGTCATGTGTCTCANCT	GTAGAAAGGTTGATTCTCATGCACTNCAATATCTT	2100					

Db 2041 TCTGAACACAGTCATGTGTGCANCTGTAGAAAGGTTGATTTCTCATGCACINCAAATACTT 2100
Qy 2101 CCAAGAGTCATATGGGGGATTTTTCATCTTATAGGCTTTCAGTGGTTTGTCTCTGGAAT 2160
Db 2101 CCAAGAGTCATATGGGGGATTTTTCATCTTATAGGCTTTCAGTGGTTTGTCTCTGGAAT 2160
Qy 2161 TC 2162
Db 2161 TC 2162

RESULT 7

US-09-883-839-5
; Sequence 5, Application US/09883839
; Publication No. US20040209250A1
; GENERAL INFORMATION:
; APPLICANT: Kreek, Mary Jeanne
; APPLICANT: LaForge, Karl Steven
; TITLE OF INVENTION: Alleles of the Human Mu Opioid Receptor,
; TITLE OF INVENTION: Diagnostic Methods Using Said Alleles, and Methods of
; TITLE OF INVENTION: Treatment Based Thereon
; FILE REFERENCE: 600-1-266N
; CURRENT APPLICATION NUMBER: US/09/883,839
; CURRENT FILING DATE: 2001-06-18
; PRIOR APPLICATION NUMBER: 60/212,225
; PRIOR FILING DATE: 2000-06-16
; NUMBER OF SEQ ID NOS: 10
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 5
; LENGTH: 2162
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: 2063..2091
; OTHER INFORMATION: n = A,T,C or G
US-09-883-839-5

Query Match 99.8%; Score 2156.8; DB 3; Length 2162;

Best Local Similarity 99.9%; Pred. No. 0;
Matches 2160; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 GGAATTCGGCTATAGGCAGAGGAGATGTCAGATGCTCAGCTCGGTCCCTCCGCTGA 60
Db 1 GGAATTCGGCTATAGGCAGAGGAGATGTCAGATGCTCAGCTCGGTCCCTCCGCTGA 60
Qy 61 CGCTCCTCTCTGCTCAGCCAGGAGTGGTTTCTGTAGAAACAGCAGGAGCTGTGGCAGC 120
Db 61 CGCTCCTCTCTGCTCAGCCAGGAGTGGTTTCTGTAGAAACAGCAGGAGCTGTGGCAGC 120
Qy 121 GCGAAAGAGGAGCGGCTGAGCGGCTTGAAACCGAAAGTCTCGGTGCTCTGGCTACCT 180
Db 121 GCGAAAGAGGAGCGGCTGAGCGGCTTGAAACCGAAAGTCTCGGTGCTCTGGCTACCT 180
Qy 181 GCGCAGCGGTGCGCGCGCGCTCAGTACATGGAAGCAGCAGCGCTGCCCCCAGCAAGC 240
Db 181 GCGCAGCGGTGCGCGCGCGCTCAGTACATGGAAGCAGCAGCGCTGCCCCCAGCAAGC 240
Qy 241 CCAGCAATTTGCACTGATGCTTGGCGTACTCAAGTTGCTCCCGCAGCACCCAGCCCGGTT 300
Db 241 CCAGCAATTTGCACTGATGCTTGGCGTACTCAAGTTGCTCCCGCAGCACCCAGCCCGGTT 300
Qy 301 CTTGGGTCAACTGTTGCCATTTAGATGGCAACCTGTGCGACCCCATGCGGTCCGAAACCGCA 360
Db 301 CTTGGGTCAACTGTTGCCATTTAGATGGCAACCTGTGCGACCCCATGCGGTCCGAAACCGCA 360
Qy 361 CCAATCTGGCGGAGACAGCCTGTGCGCTCCGACCGGAGTCCCTCCATGATCAGG 420
Db 361 CCAACCTGGCGGAGACAGCCTGTGCGCTCCGACCGGAGTCCCTCCATGATCAGG 420
Qy 421 CCATCAGCATATGCGCTCTACTCTCATCTGCTGTGGGTGCTGTGGGCTCTTCGGAACCTTCC 480
Db 421 CCATCAGCATATGCGCTCTACTCTCATCTGCTGTGGGTGCTGTGGGCTCTTCCTCTCTGGCCA 1560

Db 421 CCATCAGCATATGCGCTCTACTCTCATCTGCTGTGGGTGCTGTGGGCTCTTCGGAACCTTCC 480
Qy 481 TGTGTCATGTATGTATGTTCAGATACACCAAGATGAAGACTGCGCACCAACATCTACATTT 540
Db 481 TGTGTCATGTATGTATGTTCAGATACACCAAGATGAAGACTGCGCACCAACATCTACATTT 540
Qy 541 TCAACCTTGTCTGGCAGATGCTTACGACCAAGTACCTTCCAGAGTGTGAAT 600
Db 541 TCAACCTTGTCTGGCAGATGCTTACGACCAAGTACCTTCCAGAGTGTGAAT 600
Qy 601 ACCTAATGGGAACATGGCCATTTGGAAACCATCTTTGCAAGATAGTATCTCCATAGATT 660
Db 601 ACCTAATGGGAACATGGCCATTTGGAAACCATCTTTGCAAGATAGTATCTCCATAGATT 660
Qy 661 ACTATAACATGTTTACCAGCATATTTCAACCTCTGACCATAGAGTGTGATCGATACATTG 720
Db 661 ACTATAACATGTTTACCAGCATATTTCAACCTCTGACCATAGAGTGTGATCGATACATTG 720
Qy 721 CAGTCTGCCACCTGTCAAGCCCTTAGATTTCCGTACTCCCGAAATGCCAAATTTATCA 780
Db 721 CAGTCTGCCACCTGTCAAGCCCTTAGATTTCCGTACTCCCGAAATGCCAAATTTATCA 780
Qy 781 ATGCTGCAACTGGATCCTCTCTTCAAGCCATTTGCTCTTCTGTAATGTTTCAATGCTACAA 840
Db 781 ATGCTGCAACTGGATCCTCTCTTCAAGCCATTTGCTCTTCTGTAATGTTTCAATGCTACAA 840
Qy 841 CAAATAACAGGCAAGGTTCCATAGATGTACATTAACATTTCTCTCATCCAACTGGTACT 900
Db 841 CAAATAACAGGCAAGGTTCCATAGATGTACATTAACATTTCTCTCATCCAACTGGTACT 900
Qy 901 GGGAAAACTCGTGAAGATCTGTGTTTTCATCTTCCGCTTCAATATGCCAGTGTCTATCA 960
Db 901 GGGAAAACTCGTGAAGATCTGTGTTTTCATCTTCCGCTTCAATATGCCAGTGTCTATCA 960
Qy 961 TTACCGTGTCTATGACTGATGATCTTGGCCCTCAGAGTGTCGCCGATCTCTCTGCT 1020
Db 961 TTACCGTGTCTATGACTGATGATCTTGGCCCTCAGAGTGTCGCCGATCTCTCTGCT 1020
Qy 1021 CCAAGAAAAAGGACAGGAATCTTCGAAGGATCACAGGATGGTGTCTGGTGGTGGCTG 1080
Db 1021 CCAAGAAAAAGGACAGGAATCTTCGAAGGATCACAGGATGGTGTCTGGTGGTGGCTG 1080
Qy 1081 TGTTCATCGTCTGCTGGACTCCCATTCACATTTACGTATCAATTAAGCCCTTGGTTACAA 1140
Db 1081 TGTTCATCGTCTGCTGGACTCCCATTCACATTTACGTATCAATTAAGCCCTTGGTTACAA 1140
Qy 1141 TCCAGAAAACTAGTCTCCAGACTGTTTCTTGGCACTTCTGCATTTCTAGTGTCTAGTACCAA 1200
Db 1141 TCCAGAAAACTAGTCTCCAGACTGTTTCTTGGCACTTCTGCATTTGCTCTAGTGTACCAA 1200
Qy 1201 ACAGCTGCCTCAACCCAGTCTTTATGCAATTTCTGGATGAAAACTTCAAAACGATGCTTCA 1260
Db 1201 ACAGCTGCCTCAACCCAGTCTTTATGCAATTTCTGGATGAAAACTTCAAAACGATGCTTCA 1260
Qy 1261 GAGAGTTCTGTATCCCAACCTCTTCCAAACATTTGAGCAACAAAACTCCAATCGAATTCGTC 1320
Db 1261 GAGAGTTCTGTATCCCAACCTCTTCCAAACATTTGAGCAACAAAACTCCAATCGAATTCGTC 1320
Qy 1321 AGAACACTAGAGACACCCCTCCAGGCGCAATACAGTGGATAGAACTAATCATCAGCTAG 1380
Db 1321 AGAACACTAGAGACACCCCTCCAGGCGCAATACAGTGGATAGAACTAATCATCAGCTAG 1380
Qy 1381 AAAATCTGGAAGCAGAAACTGCTCCGTTGCCCTAAACAGGGTCTCATGCCATTCGACCTT 1440
Db 1381 AAAATCTGGAAGCAGAAACTGCTCCGTTGCCCTAAACAGGGTCTCATGCCATTCGACCTT 1440
Qy 1441 CACCAAGCTTAGAAGCACCATGTATGTGGAAGCAGGTTGCTTCAAGAAATGTGTAGGAGG 1500
Db 1441 CACCAAGCTTAGAAGCACCATGTATGTGGAAGCAGGTTGCTTCAAGAAATGTGTAGGAGG 1500
Qy 1501 CTCTAAATCTCTAGGAAAGTGCCTACTTTTAGGTCATCCAACTCTTCTCTCTGGCCA 1560
Db 1501 CTCTAAATCTCTAGGAAAGTGCCTACTTTTAGGTCATCCAACTCTTCTCTCTGGCCA 1560

1561 CTCTGCTCTGCACATTAGAGGGACAGCCAAAAGTAAGTCGAGCATTTTGGAAAGGAA 1620
1561 CTCTGCTCTGCACATTAGAGGGACAGCCAAAAGTAAGTCGAGCATTTTGGAAAGGAA 1620
1621 TATACCACACCGAGGAGTCCAGTTTGTGCAAGACACCCAGTGGAAACCAAAACCCATCGTG 1680
1621 TATACCACACCGAGGAGTCCAGTTTGTGCAAGACACCCAGTGGAAACCAAAACCCATCGTG 1680
1681 GTATGTGAATTGAAGTCATCAATAAAGGTGACCTTCTGTCTGTGAAGATTTTATTTCAA 1740
1681 GTATGTGAATTGAAGTCATCAATAAAGGTGACCTTCTGTCTGTGAAGATTTTATTTCAA 1740
1741 GCATAATATTATGACCTCAACAAAGAAAGAACCATCTTTTGTAAAGTTTCAACCGTAGTAACA 1800
1741 GCATAATATTATGACCTCAACAAAGAAAGAACCATCTTTTGTAAAGTTTCAACCGTAGTAACA 1800
1801 CATAAAGTAAATGCTACCTCTGATCAAAAGCACCTTGAATGGAAGGTCCGAGTCTTTTATAG 1860
1801 CATAAAGTAAATGCTACCTCTGATCAAAAGCACCTTGAATGGAAGGTCCGAGTCTTTTATAG 1860
1861 TGTATTTGCAGGGAATGAATTCATTTATTTAGACTTTTAACTTCAACTTAAAT 1920
1861 TGTATTTGCAGGGAATGAATTCATTTATTTAGACTTTTAACTTCAACTTAAAT 1920
1921 TAGCATCTGGCTAAGGCATCAITTTTCCACTTCCATTTCTTGGTTTGTATTTTAAATAA 1980
1921 TAGCATCTGGCTAAGGCATCAITTTTCCACTTCCATTTCTTGGTTTGTATTTTAAATAA 1980
1981 AATAACATCTTTTCACTAGCTCCATAATTGCAAGGGAAGAGATTAGCATGAAAGGTAA 2040
1981 AATAACATCTTTTCACTAGCTCCATAATTGCAAGGGAAGAGATTAGCATGAAAGGTAA 2040
2041 TCTGAAACACAGTCATGTGTCACTGTAGAAAGTTGATTTCTATGCACTNCAATPACTT 2100
2041 TCTGAAACACAGTCATGTGTCACTGTAGAAAGTTGATTTCTATGCACTNCAATPACTT 2100
2101 CCAAGAGTCATCATGGGGATTTTTCATTTTAGGCTTTTCACTGAGTGTGTTTCTCGGAAT 2160
2101 CCAAGAGTCATCATGGGGATTTTTCATTTTAGGCTTTTCACTGAGTGTGTTTCTCGGAAT 2160
2161 TC 2162
2161 TC 2162

RESULT 8
US-09-883-839-8
; Sequence 8, Application US/09883839
; Publication No. US20040209250A1
; GENERAL INFORMATION:
; APPLICANT: Kreek, Mary Jeanne
; APPLICANT: LaForge, Karl Steven
; TITLE OF INVENTION: Alleles of the Human Mu Opioid Receptor,
; TITLE OF INVENTION: Diagnostic Methods Using Said Alleles, and Methods of
; TITLE OF INVENTION: Treatment Based Thereon
; FILE REFERENCE: 600-1-266N
; CURRENT APPLICATION NUMBER: US/09/883,839
; CURRENT FILING DATE: 2001-06-18
; PRIOR APPLICATION NUMBER: 60/212,225
; PRIOR FILING DATE: 2000-06-16
; NUMBER OF SEQ ID NOS: 10
; SOFTWARE: PseSTSEQ for Windows Version 4.0
; SEQ ID NO 8
; LENGTH: 2162
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: 2063_2091
; OTHER INFORMATION: n = A,T,C or G
US-09-883-839-8

Query Match 99.8%; Score 2156.8; DB 3; Length 2162;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 2160; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
QY 1 GGAATTCGGCTATAGGAGGAGGAGAAATGTCTAGATGCTCAGCTCGGTCCCTCCGCTGA 60
Db 1 GGAATTCGGCTATAGGAGGAGGAGAAATGTCTAGATGCTCAGCTCGGTCCCTCCGCTGA 60
QY 61 CGCTCCTCTCTGTCTCAGCCAGGACTGGTTTCTGTAAGAAACAGCAGGAGCTGTGGCAGC 120
Db 61 CGCTCCTCTCTGTCTCAGCCAGGACTGGTTTCTGTAAGAAACAGCAGGAGCTGTGGCAGC 120
QY 121 GCGGAAAGGAGCGGCTGAGCGCTTGGAAACCCGAAAAGTCTCGGTGCTCTGGGTACT 180
Db 121 GCGGAAAGGAGCGGCTGAGCGCTTGGAAACCCGAAAAGTCTCGGTGCTCTGGGTACT 180
QY 181 CGCAGAGGCTGCCCGCCGCGCTCAGTACATGGAACAGCAGCGTGCCTCCCAAGAG 240
Db 181 CGCAGAGGCTGCCCGCCGCGCTCAGTACATGGAACAGCAGCGTGCCTCCCAAGAG 240
QY 241 CCAGCAATTGCACTGATGCTTGGCGTACTCAAGTTGCTCCCGACGCCAGCCCGGTT 300
Db 241 CCAGCAATTGCACTGATGCTTGGCGTACTCAAGTTGCTCCCGACGCCAGCCCGGTT 300
QY 301 CCTGGGTCAAATTTGTCCCACTTTAGATGGCAACCTGTCCGACCCATCGCGTCCGAAACCGCA 360
Db 301 CCTGGGTCAAATTTGTCCCACTTTAGATGGCAACCTGTCCGACCCATCGCGTCCGAAACCGCA 360
QY 361 CCAATCTGGGGGAGAGACAGCCTGTGCTCCGACCGGAGTCCCTCATGATCAGCG 420
Db 361 CCAATCTGGGGGAGAGACAGCCTGTGCTCCGACCGGAGTCCCTCATGATCAGCG 420
QY 421 CCATCAGCATCATGCGCTCTACTCCATCGTGTGGTGGTGGGGCTCTTCGAAACTTCC 480
Db 421 CCATCAGCATCATGCGCTCTACTCCATCGTGTGGTGGTGGGGCTCTTCGAAACTTCC 480
QY 481 TGGTCATGTATGTATGTCAGATACACCAAGATGAAGACTGCCACCAACATCTACATTT 540
Db 481 TGGTCATGTATGTATGTCAGATACACCAAGATGAAGACTGCCACCAACATCTACATTT 540
QY 541 TCAACCTTGTCTGGCAGATGCTTTAGCCACCCAGTACCTCTCCGCTTCCAGAGTGTGAAT 600
Db 541 TCAACCTTGTCTGGCAGATGCTTTAGCCACCCAGTACCTCTCCGCTTCCAGAGTGTGAAT 600
QY 601 ACCTAATGGGACATGGCCATTTTGAACCATCTCTTTCGAAAGATAGTATCTCATAGATT 660
Db 601 ACCTAATGGGACATGGCCATTTTGAACCATCTCTTTCGAAAGATAGTATCTCATAGATT 660
QY 661 ACTATAACATGTTTCAACAGCATATTTCAACCTCTGCACCATGAGTGTGATCGATACATTG 720
Db 661 ACTATAACATGTTTCAACAGCATATTTCAACCTCTGCACCATGAGTGTGATCGATACATTG 720
QY 721 CAGTCTGCCACCTGTCAAGGCTTTAGATTTCGCTACTCTCCGAAATGCGCAAAATATCA 780
Db 721 CAGTCTGCCACCTGTCAAGGCTTTAGATTTCGCTACTCTCCGAAATGCGCAAAATATCA 780
QY 781 ATGCTGCAACTGGATCTCTCTTCAGCCATTTGGTCTTCTGTAATGTTTCATGGCTACAA 840
Db 781 ATGCTGCAACTGGATCTCTCTTCAGCCATTTGGTCTTCTGTAATGTTTCATGGCTACAA 840
QY 841 CAAAATACAGCAAGGTTTCCATAGATTGTACACTAACATTTCTCTCATCCAACTGGTACT 900
Db 841 CAAAATACAGCAAGGTTTCCATAGATTGTACACTAACATTTCTCTCATCCAACTGGTACT 900
QY 901 GGGAAAACTCGTGAAGATCTGTGTTTTCATCTTCGCTTCAATATGTCAGGCTCATCA 960
Db 901 GGGAAAACTCGTGAAGATCTGTGTTTTCATCTTCGCTTCAATATGTCAGGCTCATCA 960
QY 961 TTACCGTGTCTATGCACTGATGCTTGGCGCTCAAGAGTGTCCGCACTCTCTGGCT 1020
Db 961 TTACCGTGTCTATGCACTGATGCTTGGCGCTCAAGAGTGTCCGCACTCTCTGGCT 1020
QY 1021 CCAAGAAAAAGGACAGGAATCTTCGAAGGATCACCAGGATGGTGTGGTGGCTG 1080

Db 1021 CCAAGAAAGGACGAGAACTCTTCGAGGATCACCAGGATGGTGGTGGCTG 1080
Qy
Db 1081 TGTTCATCGTCTGTGACCTCCCATTCACATTTAGTCATCATTAAGCCCTTGGTTACAA 1140
1081 TGTTCATCGTCTGTGACCTCCCATTCACATTTAGTCATCATTAAGCCCTTGGTTACAA 1140
Qy 1141 TCCAGAAACTAGTTCACAGCTGTTTCTTGGCACTTCTGCATTTCTAGGTTCACAA 1200
Db 1141 TCCAGAAACTAGTTCACAGCTGTTTCTTGGCACTTCTGCATTTCTAGGTTCACAA 1200
Qy 1201 ACAGCTCCCTCAACCCAGTCTTTATGCATTTCTGGATGAAAACCTTCAACAGATGCTTCA 1260
Db 1201 ACAGCTCCCTCAACCCAGTCTTTATGCATTTCTGGATGAAAACCTTCAACAGATGCTTCA 1260
Qy 1261 GAGAGTTCTGTATCCCAACCTCTTCCAACTATGAGCAACAAAACCTCACTCGAATTCGTC 1320
Db 1261 GAGAGTTCTGTATCCCAACCTCTTCCAACTATGAGCAACAAAACCTCACTCGAATTCGTC 1320
Qy 1321 AGAACCTAGAGACCCCTCCACGCCCAATACAGTGGATAGAACTAATCATCAGCTAG 1380
Db 1321 AGAACCTAGAGACCCCTCCACGCCCAATACAGTGGATAGAACTAATCATCAGCTAG 1380
Qy 1381 AATATCTGGAAGCAAGAACTGCTCCGTTGCCCTAACAGGCTCTCATGCCATTCGACCTT 1440
Db 1381 AATATCTGGAAGCAAGAACTGCTCCGTTGCCCTAACAGGCTCTCATGCCATTCGACCTT 1440
Qy 1441 CACCAAGCTTAGAAGCCACCATATGTGTGAAGCAGGTTGTTCAAGATGTGTAGAGG 1500
Db 1441 CACCAAGCTTAGAAGCCACCATATGTGTGAAGCAGGTTGTTCAAGATGTGTAGAGG 1500
Qy 1501 CTCTAATCTCTAGGAAGTGCCTACTTTTAGGTCATCCAACTCTTCTCTCGGCCA 1560
Db 1501 CTCTAATCTCTAGGAAGTGCCTACTTTTAGGTCATCCAACTCTTCTCTCGGCCA 1560
Qy 1561 CTCTGCTCTGCATATAGAGGACAGCCAAAGTAAGTGGAGCATTTGGGAAGGAAGGAA 1620
Db 1561 CTCTGCTCTGCATATAGAGGACAGCCAAAGTAAGTGGAGCATTTGGGAAGGAAGGAA 1620
Qy 1621 TATACCAACCCAGGAGTCCAGTTTGTGCAAGACACCCAGTGGAAACCCATCGT 1680
Db 1621 TATACCAACCCAGGAGTCCAGTTTGTGCAAGACACCCAGTGGAAACCCATCGT 1680
Qy 1681 GTATGTGAATGAAAGTCAATAAAGGTGACCTTCTGTCTGTAAGATTTATTTCAA 1740
Db 1681 GTATGTGAATGAAAGTCAATAAAGGTGACCTTCTGTCTGTAAGATTTATTTCAA 1740
Qy 1741 GCAATATTTATGACCTCAACAAAGAAAGAACCATCTTTTGAAGTTCAACGTAGTAACA 1800
Db 1741 GCAATATTTATGACCTCAACAAAGAAAGAACCATCTTTTGAAGTTCAACGTAGTAACA 1800
Qy 1801 CATAAAGTAATGCTTACCTCTGATCAAGCACCTTGAATGAAAGTCCGAGTCTTTTAG 1860
Db 1801 CATAAAGTAATGCTTACCTCTGATCAAGCACCTTGAATGAAAGTCCGAGTCTTTTAG 1860
Qy 1861 TGTTTTTGCAAGGGAATGAATTCATTTATTTAGACHTTTAACTTCAACTTAAAT 1920
Db 1861 TGTTTTTGCAAGGGAATGAATTCATTTATTTAGACHTTTAACTTCAACTTAAAT 1920
Qy 1921 TAGCATCTGGCTAAGGCATCATTTTACCTCATTTCTGGTTTGTATTTAAAAA 1980
Db 1921 TAGCATCTGGCTAAGGCATCATTTTACCTCATTTCTGGTTTGTATTTAAAAA 1980
Qy 1981 AATAACATCTCTTTTCATCTAGCTCCATTAATTTGCAAGGGAAGATTAGCATGAAGGTAA 2040
Db 1981 AATAACATCTCTTTTCATCTAGCTCCATTAATTTGCAAGGGAAGATTAGCATGAAGGTAA 2040
Qy 2041 TCTGAAACACAGTCAATGTGTCACTGTAGAAAGGTGTATTTCTCATGCACTNCAATACCT 2100
Db 2041 TCTGAAACACAGTCAATGTGTCACTGTAGAAAGGTGTATTTCTCATGCACTNCAATACCT 2100
Qy 2101 CCAAGAGTCACTAGGGGATTTTTCATTTCTAGGCTTTTCAGTGGTTTCTCTGGAAT 2160

Db 2101 CCAAGAGTCACTAGGGGATTTTTCATTTCTAGGCTTTTCAGTGGTTTCTCTGGAAT 2160
Qy 2161 TC 2162
Db 2161 TC 2162
RESULT 9
US-09-883-839-9
; Sequence 9, Application US/09883839
; Publication No. US20040209250A1
; GENERAL INFORMATION:
; APPLICANT: Kreek, Mary Jeanne
; APPLICANT: LaForge, Karl Steven
; TITLE OF INVENTION: Alleles of the Human Mu Opioid Receptor,
; TITLE OF INVENTION: Diagnostic Methods Using Said Alleles, and Methods of
; TITLE OF INVENTION: Treatment Based Thereon
; FILE REFERENCE: 600-1-266N
; CURRENT APPLICATION NUMBER: US/09/883,839
; PRIOR FILING DATE: 2001-06-18
; PRIOR FILING DATE: 2000-06-16
; NUMBER OF SEQ ID NOS: 10
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 9
; LENGTH: 2165
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: 2066, 2094
; OTHER INFORMATION: n = A,T,C or G
US-09-883-839-9
Query Match 99.2%; Score 2145.4; DB 3; Length 2165;
Best Local Similarity 99.8%; Pred. No. 0;
Matches 2161; Conservative 0; Mismatches 1; Indels 3; Gaps 1;
Qy 1 GGAATTCGGCTATAGCAGAGGAGATGTCAGATGCTCAGCTCGGTCCCTCCGCTCGA 60
Db 1 GGAATTCGGCTATAGCAGAGGAGATGTCAGATGCTCAGCTCGGTCCCTCCGCTCGA 60
Qy 61 CGCTCTCTCTGTCTCAGCCAGGACTGGTTTCTGTAAAGAAACAGAGAGCTGTGGCAGC 120
Db 61 CGCTCTCTCTGTCTCAGCCAGGACTGGTTTCTGTAAAGAAACAGAGAGCTGTGGCAGC 120
Qy 121 GCGAAAGGAAGCGGTGTAGGCGCTTGGAAACCCGAAAAGTCTCGGTGCTCTGTGCTACCT 180
Db 121 GCGAAAGGAAGCGGTGTAGGCGCTTGGAAACCCGAAAAGTCTCGGTGCTCTGTGCTACCT 180
Qy 181 CGCACAGCGTCCCGCCCGCGCTCAGTACCATGACAGCGCTGCCCCACGAAACG 240
Db 181 CGCACAGCGTCCCGCCCGCGCTCAGTACCATGACAGCGCTGCCCCACGAAACG 240
Qy 241 CCAGCAATTCGACTGTAGTCCCTTGGCGTACTCAAGTTGCTCCCGACACCCAGCCCGGTT 300
Db 241 CCAGCAATTCGACTGTAGTCCCTTGGCGTACTCAAGTTGCTCCCGACACCCAGCCCGGTT 300
Qy 301 CTTGGGTCAAATCTGTCTCCACTTATAGATGGCAACCTGTCCGACCCATGCGGTCCGAAACCGCA 360
Db 301 CTTGGGTCAAATCTGTCTCCACTTATAGATGGCAACCTGTCCGACCCATGCGGTCCGAAACCGCA 360
Qy 361 CCATCTGGGGGGGAGAGACAGCTGTGCCCTCCGAC--CGGCAGTCCCTCCATGATCA 417
Db 361 CCATCTGGGGGGGAGAGACAGCTGTGCCCTCCGAC--CGGCAGTCCCTCCATGATCA 420
Qy 418 CGGCCATTCAGATCATGGCCCTCTACTCCATCTGTGCTGTGGTGGGCTCTTCGGAAACT 477
Db 421 CGGCCATTCAGATCATGGCCCTCTACTCCATCTGTGCTGTGGTGGGCTCTTCGGAAACT 480
Qy 478 TCCTGGTCACTATGTGATTTGTGATATACCAAGATGAAGACTGCGCAACCAATCTACA 537
Db 481 TCCTGGTCACTATGTGATTTGTGATATACCAAGATGAAGACTGCGCAACCAATCTACA 540

QY 538 TTTTCAACCTTGCTCTGGCAGATGCTTAGCCACAGTACCTGCCCCTTCCAGAGTGTGA 597
Db 541 TTTTCAACCTTGCTCTGGCAGATGCCCTTAGCCACAGTACCTGCCCCTTCCAGAGTGTGA 600
QY 598 ATTACTTAATGGGAACATGGCCATTTTGGAAACCATCTTTTGCAGATAGTGTCTCCATAG 657
Db 601 ATTACTTAATGGGAACATGGCCATTTTGGAAACCATCTTTTGCAGATAGTGTCTCCATAG 660
QY 658 ATTACTTAATGGGAACATGGCCATTTTGCAGATAGTGTCTCCATAGTGTGTGATCGATACA 717
Db 661 ATTACTTAATGGGAACATGGCCATTTTGCAGATAGTGTCTCCATAGTGTGTGATCGATACA 720
QY 718 TTGCGAGTCTGCCACCTGTCAAGGCCTTAGATTTCCGTACTCCCGAAATGCCAAATTA 777
Db 721 TTGCGAGTCTGCCACCTGTCAAGGCCTTAGATTTCCGTACTCCCGAAATGCCAAATTA 780
QY 778 TCAATGTCTGCAACTGGATCCTCTCTTCAGCCATTTGGTCTTCTCTGTATGTTTCATGGCTA 837
Db 781 TCAATGTCTGCAACTGGATCCTCTCTTCAGCCATTTGGTCTTCTCTGTATGTTTCATGGCTA 840
QY 838 CAAACAAATACAGGCAAGGTTCCATAGATTTGACATACTCTCATCCTCAACCTGCT 897
Db 841 CAAACAAATACAGGCAAGGTTCCATAGATTTGACATACTCTCATCCTCAACCTGCT 900
QY 898 ACTGGGAAACCTCGTGAAGATCTGTGTTTTCATCTTCGCCCTTCATTATGCCAGTCTCA 957
Db 901 ACTGGGAAACCTCGTGAAGATCTGTGTTTTCATCTTCGCCCTTCATTATGCCAGTCTCA 960
QY 958 TCATTACCGTGTCTATGGACATGATCTTGGCCTCAAGAGTGTCCGATGCTCTCTG 1017
Db 961 TCATTACCGTGTCTATGGACATGATCTTGGCCTCAAGAGTGTCCGATGCTCTCTG 1020
QY 1018 GCTCCAAAGAAAGGACAGAACTTCGAAAGATACCAAGGATGTGCTGTGGTGGTGG 1077
Db 1021 GCTCCAAAGAAAGGACAGAACTTCGAAAGATACCAAGGATGTGCTGTGGTGGTGG 1080
QY 1078 CTGTGTTTCATCGTCTCGACTGCCATTCACATTTACGTCATCATTAAGGCTTGGTTA 1137
Db 1081 CTGTGTTTCATCGTCTCGACTGCCATTCACATTTACGTCATCATTAAGGCTTGGTTA 1140
QY 1138 CAATCCAGAAACTAGTCTCCAGACTGTGTTTCTTGGCACTTCTGCAATGCTCTAGGTTACA 1197
Db 1141 CAATCCAGAACTAGTCTCCAGACTGTGTTTCTTGGCACTTCTGCAATGCTCTAGGTTACA 1200
QY 1198 CAAACAGTGCCTCAACCCAGTCTTTATGCAATTTCTGATGAAACATTCAAACGATGCT 1257
Db 1201 CAAACAGTGCCTCAACCCAGTCTTTATGCAATTTCTGATGAAACATTCAAACGATGCT 1260
QY 1258 TCAGAGAGTCTGTATCCCAACCTCTTCCAAACATTCAGCAACAAACTCCACTCCGAATTC 1317
Db 1261 TCAGAGAGTCTGTATCCCAACCTCTTCCAAACATTCAGCAACAAACTCCACTCCGAATTC 1320
QY 1318 GTCAGAACACTAGAGACCCCTCCACGCCCAATACAGTGGATAGAACTAATCATCATCAGC 1377
Db 1321 GTCAGAACACTAGAGACCCCTCCACGCCCAATACAGTGGATAGAACTAATCATCATCAGC 1380
QY 1378 TAGAAATCTGGAAGCAGAAACTGTCTCGTTCGGCTTAAACAGGTCATGCCATTCGCAC 1437
Db 1381 TAGAAATCTGGAAGCAGAAACTGTCTCGTTCGGCTTAAACAGGTCATGCCATTCGCAC 1440
QY 1438 CTTCCAGAGCTTAGAAGCCACCATGTATGTGAAGCAGGTTGCTTTCAGAAATGTGTAGG 1497
Db 1441 CTTCCAGAGCTTAGAAGCCACCATGTATGTGAAGCAGGTTGCTTTCAGAAATGTGTAGG 1500
QY 1498 AGGCTCTAATTTCTTAGGAAAGTGCCTACTTTTAGGTTCATCCAACTCTTTCTCTCTCG 1557
Db 1501 AGGCTCTAATTTCTTAGGAAAGTGCCTACTTTTAGGTTCATCCAACTCTTTCTCTCTCG 1560
QY 1558 CCACTCTGCTCTGCACATTTAGAGGGACAGCCAAAGTAAAGTGGAGCATTTGGNAGGAAG 1617
Db 1561 CCACTCTGCTCTGCACATTTAGAGGGACAGCCAAAGTAAAGTGGAGCATTTGGNAGGAAG 1620

QY 1618 GAATATACCACACCCAGGAGTCCAGTTTGTGCAAGACACCCAGTGGAAACCAAAACCCATC 1677
Db 1621 GAATATACCACACCCAGGAGTCCAGTTTGTGCAAGACACCCAGTGGAAACCAAAACCCATC 1680
QY 1678 GTGGTATGTGAATTTGAAGTCATCAATAAAGGTGACCTTCTGTCTGTAGATTTTATTTT 1737
Db 1681 GTGGTATGTGAATTTGAAGTCATCAATAAAGGTGACCTTCTGTCTGTAGATTTTATTTT 1740
QY 1738 CAAACAAATATTTATGACCTCAACAAAGAAAGAACCATCTTTTGTAAAGTTTCAACGATGA 1797
Db 1741 CAAACAAATATTTATGACCTCAACAAAGAAAGAACCATCTTTTGTAAAGTTTCAACGATGA 1800
QY 1798 ACACATAAAGTAAATGTACCTCTGATCAAGCACTTGAATGGAAGGTCCGAGTCTTTT 1857
Db 1801 ACACATAAAGTAAATGTACCTCTGATCAAGCACTTGAATGGAAGGTCCGAGTCTTTT 1860
QY 1858 TAGTGTGTTTGCAGGGAATGAATCATTATTTAGACTTTTAACTTTCAACTTAA 1917
Db 1861 TAGTGTGTTTGCAGGGAATGAATCATTATTTAGACTTTTAACTTTCAACTTAA 1920
QY 1918 AATTAGCATCTGCTTAAGGCATCTTTTACCTCCTTCTTGGTCTTTTGTATTTTAAA 1977
Db 1921 AATTAGCATCTGCTTAAGGCATCTTTTACCTCCTTCTTGGTCTTTTGTATTTTAAA 1980
QY 1978 AAAATAAACATCTCTTTTCACTAGCTCCATAATTCAGGGGAAGAGATTAGCATGAAAG 2037
Db 1981 AAAATAAACATCTCTTTTCACTAGCTCCATAATTCAGGGGAAGAGATTAGCATGAAAG 2040
QY 2038 TAATCTGAAACACAGTCATGTCTCANTGTAGAAAGGTTGATCTCATGCACTNCAATA 2097
Db 2041 TAATCTGAAACACAGTCATGTCTCANTGTAGAAAGGTTGATCTCATGCACTNCAATA 2100
QY 2098 CTTCCAAAGAGTCATCATGGGGATTTTTCATTCTTAGCTTTTCACTGCTTCTCTCG 2157
Db 2101 CTTCCAAAGAGTCATCATGGGGATTTTTCATTCTTAGCTTTTCACTGCTTCTCTCG 2160
QY 2158 AATTC 2162
Db 2161 AATTC 2165

RESULT 10

US-10-080-917-12
; Sequence 12, Application US/10080917
; Publication No. US20030054451A1
; GENERAL INFORMATION:
; APPLICANT: Cadet, Patrick
; APPLICANT: Stefano, George B.
; TITLE OF INVENTION: Opiate Receptors
; FILE REFERENCE: 09598-006001
; CURRENT APPLICATION NUMBER: US/10/080,917
; CURRENT FILING DATE: 2002-02-22
; PRIOR APPLICATION NUMBER: US 60/270,479
; PRIOR FILING DATE: 2001-02-22
; PRIOR APPLICATION NUMBER: US 60/336,677
; PRIOR FILING DATE: 2001-12-05
; NUMBER OF SEQ ID NOS: 28
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 12
; LENGTH: 2149
; TYPE: DNA
; ORGANISM: Homo Sapiens
US-10-080-917-12

Query Match 97.5%; Score 2108.8; DB 5; Length 2149;
Best Local Similarity 99.5%; Pred. No. 0;
Matches 2135; Conservative 0; Mismatches 9; Indels 2; Gaps 2;
QY 9 GGCCTATAGCAGAGGAGATGTGATGCTCAGTCCGTCCTCCCTCGCTGAGCTCCTC 68
Db 6 GGCCTATAGCAGAGGAGATGTGATGCTCAGTCCGTCCTCCCTCGCTGAGCTCCTC 65
QY 69 TCTGTCTCAGCCAGGACTGGTTTCTGTAAAGAACAGCAGGAGCTGTGGCAGCGGGAAG 128

1021	Db		GAATCTTT	CGAAGAT	CA	CCAGAT	GGTG	CTGGT	GGTG	CTGT	TTGTT	TCAT	CGT	CTG	CTG	1080
1097	Qy		GACTCCCA	TTCACAT	TTTACGT	CATCAT	TATAAG	AGCCTT	GGTTAC	AATCC	CAGAAA	CTAC	GT			1156
1081	Db		GACTCCCA	TTCACAT	TTTACGT	CATCAT	TATAAG	AGCCTT	GGTTAC	AATCC	CAGAAA	CTAC	GT			1140
1157	Qy		CCAGACTG	TTTTT	GGCACT	TTCTG	CATTG	CTAG	TTGT	TACACA	AACTG	CGCT	CA	ACCC		1216
1141	Db		CCAGACTG	TTTTT	GGCACT	TTCTG	CATTG	CTAG	TTGT	TACACA	AACTG	CGCT	CA	ACCC		1200
1217	Qy		AGTCCTTT	ATGCA	TTTCT	GGATG	AAAACT	TCAA	CGATG	CTTCA	GAGAG	TTC	GTAT	CCCC		1276
1201	Db		AGTCCTTT	ATGCA	TTTCT	GGATG	AAAACT	TCAA	CGATG	CTTCA	GAGAG	TTC	GTAT	CCCC		1260
1277	Qy		AACCTCTT	CCAA	CAAT	TGAG	CAACAAAA	ACTCCA	CAC	TTCGA	ATTCCG	TACAG	AAC	CACTAG	AGACCA	1336
1261	Db		AACCTCTT	CCAA	CAAT	TGAG	CAACAAAA	ACTCCA	CAC	TTCGA	ATTCCG	TACAG	AAC	CACTAG	AGACCA	1320
1337	Qy		CCCTCC	ACGG	CCAA	TACAG	TGGAT	AGAA	CTAAT	ATCAT	CAG	GTAG	AAAT	CT		1387
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RESULT 13

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US-10-080-917-6
; Sequence 6, Application US/10080917
; Publication No. US20030054451A1
; GENERAL INFORMATION:
; APPLICANT: Cadet, Patrick
; APPLICANT: Stefano, George B.
; TITLE OF INVENTION: Opiate Receptors
; FILE REFERENCE: 09598-006001
; CURRENT APPLICATION NUMBER: US/10/080,917
; CURRENT FILING DATE: 2002-02-22
; PRIOR APPLICATION NUMBER: US 60/270,479
; PRIOR FILING DATE: 2001-02-22
; PRIOR APPLICATION NUMBER: US 60/336,677
; PRIOR FILING DATE: 2001-12-05
; NUMBER OF SEQ ID NOS: 28
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 6
; LENGTH: 1431
; TYPE: DNA
; ORGANISM: Homo Sapiens
US-10-080-917-6

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Db	1	ATGTCAGATGCTCAGCTCGGTCCCTCGCGCTGACGCTCCTCTGTCTCAGCCAGGACT	60	
Qy	87	GGTTTCTGTAAAGAACAGCAGGAGCTGTGGCAGCGGGGAAAGGAAGCGGGCTGAGGGCGTTT	146	
Db	61	GGTTTCTGTAAAGAACAGCAGGAGCTGTGGCAGCGGGGAAAGGAAGCGGGCTGTAGCGCGCTT	120	
Qy	147	GGACCCGAAAGTCTCGGTCTCTTGCTACCTCGCACGCGTGCCTCGCGCCGCGCGCGTC	206	
Db	121	GGAAACCGAAAGTCTCGGTCTCTTGCTACCTCGCACGCGTGCCTCGCGCCGCGCGCGTC	180	
Qy	207	AGTACCATGGACAGCAGCGGTGCCCCCAAGAACGCCAGCAATGTGACTGTGCTTGGCG	266	
Db	181	AGTACCATGGACAGCAGCGGTGCCCCCAAGAACGCCAGCAATGTGACTGTGCTTGGCG	240	
Qy	267	TACTCAAGTTGCTCCCCAGCACACGACCCCGGTTCTTGGGTCACTGTGCCACTTAGAT	326	
Db	241	TACTCAAGTTGCTCCCCAGCACACGACCCCGGTTCTTGGGTCACTGTGCCACTTAGAT	300	
Qy	327	GGCAACCTGTCCGAGCCCATGCGGTCCGAACCGCCCAATCTGGGGCGGAGAGACGCGCTG	386	

Qy	273	AGTTGCTCCCGACCCAGCCCGGTTCTCGGTCAACTTCTCCCACTTAGATGCAAC	332
Db	61	AGTTGCTCCCGACCCAGCCCGGTTCTCGGTCAACTTCTCCCACTTAGATGCAAC	120
Qy	333	CTGTCCGACCATGCGGTCCGAAACCGCACCAATCTGGGCGGAGAGACAGCCTGTGCCCT	392
Db	121	CTGTCCGACCATGCGGTCCGAAACCGCACCACTGGGCGGAGAGACAGCCTGTGCCCT	180
Qy	393	CCGACCGGAGTCCCTCCATGATACGGCCATACGATCATGGCCCTCTACTCCATCGTG	452
Db	181	CCGACCGGAGTCCCTCCATGATACGGCCATACGATCATGGCCCTCTACTCCATCGTG	240
Qy	453	TGGGTGGTGGGCTCTTCGGAACCTTCCTGGTCATGTATGTATGTATGATACCAACAG	512
Db	241	TGGGTGGTGGGCTCTTCGGAACCTTCCTGGTCATGTATGTATGTATGATACCAACAG	300
Qy	513	ATGAAGACTGCCACCAACATCTACATTTTCAACCTTGTCTGGCAGATGCTTAGCCACC	572
Db	301	ATGAAGACTGCCACCAACATCTACATTTTCAACCTTGTCTGGCAGATGCTTAGCCACC	360
Qy	573	AGTACCCTCCCTTCAGAGTGTGAATTAACCTAATGGGAACATGGCCATTTGGAAACCATC	632
Db	361	AGTACCCTCCCTTCAGAGTGTGAATTAACCTAATGGGAACATGGCCATTTGGAAACCATC	420
Qy	633	CTTTGCAAGATAGTGTATCTCCATAGATTACTATACATCTTACACAGCATATTCACCCCTC	692
Db	421	CTTTGCAAGATAGTGTATCTCCATAGATTACTATACATCTTACACAGCATATTCACCCCTC	480
Qy	693	TGCACCATGATGTTGATCGATACATTTGCAGCTCTGCCACCTGTCAAGGCCCTTAGATTTC	752
Db	481	TGCACCATGATGTTGATCGATACATTTGCAGCTCTGCCACCTGTCAAGGCCCTTAGATTTC	540
Qy	753	CGTACTCCCGAAATGCCAAAATTATCAATGTCTGCAACTGGATCTCTCTTCAGCCATT	812
Db	541	CGTACTCCCGAAATGCCAAAATTATCAATGTCTGCAACTGGATCTCTCTTCAGCCATT	600
Qy	813	GGTCTTCCTGTAATGTTCTAGTGTACAAACAATACAGCAAGTTCCATAGATTGTACA	872
Db	601	GGTCTTCCTGTAATGTTCTAGTGTACAAACAATACAGCAAGTTCCATAGATTGTACA	660
Qy	873	CTAACATTTCTCATCCAACTGGTACTGGGAAACCTCGTGAAGATCTGTGTTTTTCATC	932
Db	661	CTAACATTTCTCATCCAACTGGTACTGGGAAACCTCGTGAAGATCTGTGTTTTTCATC	720
Qy	933	TTGCGCTTCATTATGCCAGTGCTCATTTACCGTGTGCTATGGAATGATGATCTTTGCGC	992
Db	721	TTGCGCTTCATTATGCCAGTGCTCATTTACCGTGTGCTATGGAATGATGATCTTTGCGC	780
Qy	993	CTCAAGAGTGTCCGATGCTCTCTGGCTCCAAAGAAAGGACAGGAATCTTCGAAGGATC	1052
Db	781	CTCAAGAGTGTCCGATGCTCTCTGGCTCCAAAGAAAGGACAGGAATCTTCGAAGGATC	840
Qy	1053	ACCAGGATGGTGTCTGGTGGTGGTGTCTCATCGTCTGTGGACTCCCATTCACATT	1112
Db	841	ACCAGGATGGTGTCTGGTGGTGGTGTCTCATCGTCTGTGGACTCCCATTCACATT	900
Qy	1113	TACGTTCATCAATAAAGCCTTGGTTACAATCCCAAGAACTACGTTCCAGACTGTTTCTTGG	1172
Db	901	TACGTTCATCAATAAAGCCTTGGTTACAATCCCAAGAACTACGTTCCAGACTGTTTCTTGG	960
Qy	1173	CACCTTCGCATTTGCTCTAGGTTACAAACAGCTGCTCAACCCAGTCCCTTTATGCAATT	1232
Db	961	CACCTTCGCATTTGCTCTAGGTTACAAACAGCTGCTCAACCCAGTCCCTTTATGCAATT	1020
Qy	1233	CTGGATGAAACCTTCAACAGCTTCCAGAGTCTGTATCCCAACCTCTTCCAAACATT	1292
Db	1021	CTGGATGAAACCTTCAACAGCTTCCAGAGTCTGTATCCCAACCTCTTCCAAACATT	1080
Qy	1293	GAGCAACAAACCTTCAATCGAATTCGTGAGAACCTAGAGAACCCCTCCACGGCAAT	1352
Db	1081	GAGCAACAAACCTTCAATTCGTGAGAACCTAGAGAACCCCTCCACGGCAAT	1140

Qy	1353	ACAGTGGATAGAACTAATCATCATCAGCTAGAAAAATCTGGAAGCAGAAAACTGCTCCGTTGCC	1412
Db	1141	ACAGTGGATAGAACTAATCATCATCAGCTAGAAAAATCTGGAAGCAGAAAACTGCTCCGTTGCC	1200
Qy	1413	TAA 1415	
Db	1201	TAA 1203	

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Job time : 1713.52 secs

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: January 8, 2006, 19:50:21 ; Search time 309.514 Seconds
(without alignments)
5092.624 Million cell updates/sec

Title: US-09-883-839-1-T365
Perfect score: 2162
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Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 4637633 seqs, 364532575 residues

Total number of hits satisfying chosen parameters: 9275266

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

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3: /cgn2_6/ptodata/2/pubpna/US07_NEW_PUB_seq.*
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10: /cgn2_6/ptodata/2/pubpna/US60_NEW_PUB_seq.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	2158.4	99.8	2162	7	US-11-127-877-18
2	455	21.0	1423	7	US-11-136-527-2066
3	362.6	16.8	2955	7	US-11-136-527-2954
4	233	10.8	8372	7	US-11-136-527-684
5	197.8	9.1	2116	7	US-11-136-527-3819
6	194.6	9.0	1685	6	US-10-750-185-36071
7	194.6	9.0	1685	6	US-10-750-623-36071
8	187.6	8.7	1238	6	US-10-995-561-321
9	187.6	8.7	1498	6	US-10-995-561-320
10	187.6	8.7	86131	6	US-10-995-561-13298
11	177	8.2	3635	7	US-11-136-527-2101
12	172.6	8.0	1384	7	US-11-136-527-2159
13	158.8	7.3	1560	7	US-11-136-527-3742
14	158.8	7.3	1865	6	US-10-533-355-9
15	151.8	7.0	856	6	US-10-750-185-62128
16	151.8	7.0	856	6	US-10-750-623-62128
17	141.4	6.5	1224	6	US-10-750-185-40492
18	141.4	6.5	1224	6	US-10-750-623-40492
19	125.6	5.8	600	7	US-11-136-527-6162
20	112.4	5.2	3985	7	US-11-136-527-3404
21	93.4	4.3	3219	7	US-11-136-527-4059
22	93.4	4.3	3295	7	US-11-136-527-3736
23	92.6	4.3	706	6	US-10-750-185-32790

ALIGNMENTS

RESULT 1

US-11-127-877-18
; Sequence 18, Application US/11127877
; Publication No. US20050287565A1
; GENERAL INFORMATION:
; APPLICANT: Hoffmann, Pascal G.
; APPLICANT: Spittaels, Wendy
; TITLE OF INVENTION: Methods, Compositions and Compound Assays For Inhibiting Amyloid-Beta Protein Production
; TITLE OF INVENTION: Amyloid-Beta Protein Production
; FILE REFERENCE: P27,800-B USA
; CURRENT APPLICATION NUMBER: US/11/127,877
; CURRENT FILING DATE: 2005-05-12
; PRIOR APPLICATION NUMBER: 60/570,352
; PRIOR FILING DATE: 2004-05-12
; PRIOR APPLICATION NUMBER: 60/603,948
; PRIOR FILING DATE: 2004-08-24
; NUMBER OF SEQ ID NOS: 590
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 18
; LENGTH: 2162
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (2063)..(2063)
; OTHER INFORMATION: n is a, c, g, or t
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (2091)..(2091)
; OTHER INFORMATION: n is a, c, g, or t
US-11-127-877-18

Query Match 99.8%; Score 2158.4; DB 7; Length 2162;

Best Local Similarity 100.0%; Pred. No. 0;

Matches 2162; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 GGAATTCGGCTATAGGCAGAGGAGATGTCAGATGTCAGTCCGTCCTCCGCTCGA 60

Db 1 GGAATTCGGCTATAGGCAGAGGAGATGTCAGATGTCAGTCCGTCCTCCGCTCGA 60

Qy 61 CGCTCCTCTGCTCTCAGCCAGGACTGGTTCTCTAGAACACAGCAGGAGCTGTGGCAGC 120

Db 61 CGCTCCTCTGCTCTCAGCCAGGACTGGTTCTCTAGAACACAGCAGGAGCTGTGGCAGC 120

Sequence 32790, A
Sequence 3841, Ap
Sequence 4061, Ap
Sequence 3525, Ap
Sequence 3, Appli
Sequence 27, Appl
Sequence 3805, Ap
Sequence 9095, Ap
Sequence 9109, Ap
Sequence 48688, A
Sequence 3843, Ap
Sequence 20212, A
Sequence 20212, A
Sequence 50101, A
Sequence 50101, A
Sequence 2638, Ap
Sequence 1, Appli
Sequence 28, Appl
Sequence 196, App
Sequence 199, App
Sequence 197, App
Sequence 195, App

6 US-10-750-623-32790
7 US-11-136-527-3841
7 US-11-136-527-4061
7 US-11-136-527-3525
7 US-11-068-686-3
7 US-11-127-877-27
7 US-11-136-527-3805
6 US-10-995-561-9095
6 US-10-995-561-9109
6 US-10-995-561-48688
7 US-11-136-527-3843
6 US-10-750-185-20212
6 US-10-750-623-20212
6 US-10-750-185-50101
6 US-10-750-623-50101
7 US-11-136-527-2638
6 US-10-876-787-1
7 US-11-127-877-28
6 US-10-995-561-196
6 US-10-995-561-199
6 US-10-995-561-197
6 US-10-995-561-195

24 92.6 4.3 706
25 88.6 4.1 1450
26 85.4 4.0 1339
27 85.4 4.0 2580
28 83.2 3.8 1915
29 83.2 3.8 1945
30 82.2 3.8 2011
31 82.2 3.8 201
32 82.2 3.8 201
33 82.2 3.8 201
34 82.2 3.8 2156
35 81.8 3.8 600
36 81.8 3.8 600
37 81.2 3.8 810
38 81.2 3.8 810
39 78.4 3.6 1116
40 76.6 3.5 2338
41 76.6 3.5 2347
42 76.2 3.5 2214
43 76.2 3.5 2338
44 76.2 3.5 2363
45 76.2 3.5 2422

QY 121 GCGAAGGAGCGGCTGAGGCGCTTGGAAACCGAAAAAGTCTCGTGCTCTGGCTACCT 180
DB 121 GCGAAGGAGGCGGCTGAGGCGCTTGGAAACCGAAAAAGTCTCGTGCTCTGGCTACCT 180
QY 181 CGCACAGCGGTGCCCGCGCGCGTGCAGTACCATGACAGCAGCGTGCCTCCACGAAAG 240
DB 181 CGCACAGCGGTGCCCGCGCGCGTGCAGTACCATGACAGCAGCGTGCCTCCACGAAAG 240
QY 241 CAGCAAAATTCATGATGCTTGGCGTACTCAAGTTGCTCCCGAGCAGCAGCGCGGTT 300
DB 241 CAGCAAAATTCATGATGCTTGGCGTACTCAAGTTGCTCCCGAGCAGCAGCGCGGTT 300
QY 301 CTTGGGTCAACTTGTCCCACTTAGATGGCAACCTGTCGACCCATCGGTCCGAAACGCA 360
DB 301 CTTGGGTCAACTTGTCCCACTTAGATGGCAACCTGTCGACCCATCGGTCCGAAACGCA 360
QY 361 CCAATCTGGCGGAGAGAGAGAGCGCTGTGCCCTCCGACCGGCAAGTCCCTCCATGATCACGG 420
DB 361 CCAATCTGGCGGAGAGAGAGAGCGCTGTGCCCTCCGACCGGCAAGTCCCTCCATGATCACGG 420
QY 421 CAGTACGATATGGCGCTTACTCCATCGTGTGCGGTGGGCTCTTCGGAACCTTCC 480
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QY 481 TGGTCATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 540
DB 481 TGGTCATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 540
QY 541 TCAACCTTGTCTGGCAGATGCTTAGCCACCAAGTAAAGTAAAGTAAAGTAAAGTAAAGT 600
DB 541 TCAACCTTGTCTGGCAGATGCTTAGCCACCAAGTAAAGTAAAGTAAAGTAAAGTAAAGT 600
QY 601 ACCTAATGGGAACATGGCCATTTGGAAACCATCTCTTGGAAACCATCTCTTGGAAACCAT 660
DB 601 ACCTAATGGGAACATGGCCATTTGGAAACCATCTCTTGGAAACCATCTCTTGGAAACCAT 660
QY 661 ACTATAACATGTTTACAGCATATTCACCTCTGACCATGATGATGATGATGATGATGATGAT 720
DB 661 ACTATAACATGTTTACAGCATATTCACCTCTGACCATGATGATGATGATGATGATGATGAT 720
QY 721 CAGTCTGCCACCTGTCAAGGCTTAGATTTCCGTAATCCCGAAATGCCAAATTTATCA 780
DB 721 CAGTCTGCCACCTGTCAAGGCTTAGATTTCCGTAATCCCGAAATGCCAAATTTATCA 780
QY 781 ATGTCTGCAACTGGATCTCTTTCAGCCATTTGGTCTTCTGTAAGTTTCATGGCTACAA 840
DB 781 ATGTCTGCAACTGGATCTCTTTCAGCCATTTGGTCTTCTGTAATTTTCATGGCTACAA 840
QY 841 CAAATACAGGCAAGGTTCCATAGATTGTACATAACATTTCTCATCCAACTGGTACT 900
DB 841 CAAATACAGGCAAGGTTCCATAGATTGTACATAACATTTCTCATCCAACTGGTACT 900
QY 901 GGGAAACCTCTGTGAAGATCTGTGTTTTCATCTTCGCTTCATTTATGCGCAGTCTCATCA 960
DB 901 GGGAAACCTCTGTGAAGATCTGTGTTTTCATCTTCGCTTCATTTATGCGCAGTCTCATCA 960
QY 961 TTACCGTGTCTATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1020
DB 961 TTACCGTGTCTATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1020
QY 1021 CCAAGAAAGGACAGGAATCTTCGAAGGATCACAGGATGGTGGTGGTGGTGGTGGTGGTGG 1080
DB 1021 CCAAGAAAGGACAGGAATCTTCGAAGGATCACAGGATGGTGGTGGTGGTGGTGGTGGTGG 1080
QY 1081 TGTTCATCGTCTGCTGGACTGCCATTCACATTTTACGTCATCATTTAAGGCTTGGTTACAA 1140
DB 1081 TGTTCATCGTCTGCTGGACTGCCATTCACATTTTACGTCATCATTTAAGGCTTGGTTACAA 1140
QY 1141 TCCAGAAACTAGCTTCCAGACTGTTTCTTGGCACTTCTGCAATTCGATGCTTAGGTTACAA 1200
DB 1141 TCCAGAAACTAGCTTCCAGACTGTTTCTTGGCACTTCTGCAATTCGATGCTTAGGTTACAA 1200
QY 1201 ACAGCTGCCTCAACCCAGTCTTTATGCACTTTCTGGATGAAAACTTCAAACGATGCTTCA 1260

DB 1201 ACAGCTGCCTCAACCCAGTCTTTATGCACTTTCTGATGAAACTTCAAACGATGCTTCA 1260
QY 1261 GAGAGTTCTGTATCCCAACCTCTTCCAAACATTTGAGCAACAAATCTCAATTCGATTCGTC 1320
DB 1261 GAGAGTTCTGTATCCCAACCTCTTCCAAACATTTGAGCAACAAATCTCAATTCGATTCGTC 1320
QY 1321 AGAACATAGAGACCAACCCCTCCACGGCCAATFACAGTGGATAGAACTAATCATCAGCTAG 1380
DB 1321 AGAACATAGAGACCAACCCCTCCACGGCCAATFACAGTGGATAGAACTAATCATCAGCTAG 1380
QY 1381 AAAATCTCGAAGCAGAAAATGCTCGGTTGCCCTAAACAGGGTCTCATGCCATTCGACCTT 1440
DB 1381 AAAATCTCGAAGCAGAAAATGCTCGGTTGCCCTAAACAGGGTCTCATGCCATTCGACCTT 1440
QY 1441 CACCAAGCTTAGAAGCCACCATGTATGGAAGCAGGTTGCTTCAAGATGTGAGGAG 1500
DB 1441 CACCAAGCTTAGAAGCCACCATGTATGGAAGCAGGTTGCTTCAAGATGTGAGGAG 1500
QY 1501 CTCTAATTTCTTAGGAAAGTGCCTACTTTTAGGTCTCAACCTCTTCTCTGGCCA 1560
DB 1501 CTCTAATTTCTTAGGAAAGTGCCTACTTTTAGGTCTCAACCTCTTCTCTGGCCA 1560
QY 1561 CTCTCTCTGCACTTAGAGGAGCAGCCAAAGTAAAGTGGACATTTTGGAAAGAAAGGAA 1620
DB 1561 CTCTCTCTGCACTTAGAGGAGCAGCCAAAGTAAAGTGGACATTTTGGAAAGAAAGGAA 1620
QY 1621 TATACCAACCGAGAGTCCAGTTTGTGCAAGACACCCAGTGGAAACCCATCGT 1680
DB 1621 TATACCAACCGAGAGTCCAGTTTGTGCAAGACACCCAGTGGAAACCCATCGT 1680
QY 1681 GTATGTGAATTTGAAAGTCAATAAAGGTGACCTTCTGTCTGTAAGATTTTATTTCAA 1740
DB 1681 GTATGTGAATTTGAAAGTCAATAAAGGTGACCTTCTGTCTGTAAGATTTTATTTCAA 1740
QY 1741 GCATAATTTATGACCTCAACAAAGAAACCATCTTTTGTAAAGTTCAACCGTAGTAACA 1800
DB 1741 GCATAATTTATGACCTCAACAAAGAAACCATCTTTTGTAAAGTTCAACCGTAGTAACA 1800
QY 1801 CATAAAGTAAATGCTACCTCTGATCAAGACACCTTGAATGGAAGTCCGAGTCTTTTAG 1860
DB 1801 CATAAAGTAAATGCTACCTCTGATCAAGACACCTTGAATGGAAGTCCGAGTCTTTTAG 1860
QY 1861 TGTTTTTGCAAGGGAATGAATCCATTTTCTATTTTGAATTTTAACTTTCAACTTAAAT 1920
DB 1861 TGTTTTTGCAAGGGAATGAATCCATTTTCTATTTTGAATTTTAACTTTCAACTTAAAT 1920
QY 1921 TAGCATCTGGCTAAGGCAATCATTTTCACTCCATTTCTTGGTTTTGTATTTTAAAAA 1980
DB 1921 TAGCATCTGGCTAAGGCAATCATTTTCACTCCATTTCTTGGTTTTGTATTTTAAAAA 1980
QY 1981 AATAACATCTCTTTTCTAGCTCCATTAATTCGAAGGGAAGATTTAGCATGAAGGTAA 2040
DB 1981 AATAACATCTCTTTTCTAGCTCCATTAATTTGAAGGGAAGATTTAGCATGAAGGTAA 2040
QY 2041 TCTGAAACACAGTCAATGTCANCTGTAGAAAGTTGATTTCTCATGCACTNCAATACTT 2100
DB 2041 TCTGAAACACAGTCAATGTCANCTGTAGAAAGTTGATTTCTCATGCACTNCAATACTT 2100
QY 2101 CCAAGAGTCAATCATGGGGATTTTTCATTTTAGGCTTTTCAAGTGGTTTTGTTCTGGAAT 2160
DB 2101 CCAAGAGTCAATCATGGGGATTTTTCATTTTAGGCTTTTCAAGTGGTTTTGTTCTGGAAT 2160
QY 2161 TC 2162
DB 2161 TC 2162

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; APPLICANT: Wyeth
; APPLICANT: Mounts, William M
; TITLE OF INVENTION: Probe Arrays For Expression Profiling of Rat Genes
; FILE REFERENCE: 031896-041000 (AM101086)
; CURRENT APPLICATION NUMBER: US/11/136,527
; CURRENT FILING DATE: 2005-05-25
; PRIOR APPLICATION NUMBER: US 60/574,294
; PRIOR FILING DATE: 2005-05-26
; NUMBER OF SEQ ID NOS: 362830
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 2066
; LENGTH: 1423
; TYPE: DNA
; ORGANISM: Rattus norvegicus
; US-11-136-527-2066

Query Match      21.0%; Score 455; DB 7; Length 1423;
Best Local Similarity 68.9%; Pred. No. 7.5e-129;
Matches 637; Conservative 0; Mismatches 285; Indels 3; Gaps 1;

Qy 406 CTTCCATGATCAGCGCCATCAGCATCAGTATGATGTCAGATACACCAAGTGAAGACTGCCA 465
Db 236 CGTCCCTGGCTCGGCCATGCCATCACCAGCTCTACTCGGTGTGTGCGCGGTGGGC 295
Qy 466 TCTTCGGAAATCTCTGTCATGTATGTATGTCAGATACACCAAGTGAAGACTGCCA 525
Db 296 TGTGGGCAAGCTGCTCGTATGTTGGATGTCGCGTACCTAAGCTGAGACGGCCA 355
Qy 526 CCAACATCTACATTTCAACCTTCTCTGCGAGATGCTTAGCCACAGTACCTGCGCT 585
Db 356 CCAACATCTACATTTCAACCTTCTCTGCGAGATGCTTAGCCACAGTACCTGCGCT 415
Qy 586 TCCAGAGTGAATTAATCTAATGGAACATGCGCCATTTGGAAACATCTTTGCAAGATAG 645
Db 416 TCCAGAGCGCAAGTACTGATGGAACGTTGGCGCTTCGGAGAGCTGCTGTGCAAGCTG 475
Qy 646 TGATCTCCATAGATTAATTAACATGTTCAACAGATTTCAACCTCTGCACCATGATG 705
Db 476 TGTCTCTCATGATGATCTACAAATGTTTCAACAGATTTCAACCTCTGCACCATGATG 535
Qy 706 TTGATCGATATATTCAGTCTGCCACCTGTCAAGGCTTAGATTTCCGTACTCCCGCAA 765
Db 536 TGGACCGCTACATTTGCGGTCTGCCACCTGTCAAGGCTTAGATTTCCGTACTCCCGCAA 595
Qy 766 ATGCCAAATATCAATGTCTGAACTGTGATCTCTTCAAGCATTTGGTCTTCTCTTAA 825
Db 596 AGGCCAAGCTGATCAACATATGATCTGGGTCTTGGCTTCAAGTGTGTTGGGTCTCCATCA 655
Qy 826 TGTTCATGCTACACAAATACAGGCAAGTTCATAGATTTGATACATTAATCTCTC 885
Db 656 TGGTCAATGGCAGTGAACCAACCCCGGATGGAGCAGTGTATGACCGTTCAGTTCCCA 715
Qy 886 ATCCAACTGTGTCTGGGAAACCTCTGTAAGATCTGTGTTTTCATCTTCGCTTCATTA 945
Db 716 CCCCAGCTGTACTGGGACACTGTGACCAAGATCTGGGTCTCTCTTCGCTTCGTGG 775
Qy 946 TGCAGTGTCTCATATTAACGTGTGTATGAGTGTATGATCTTGGGCTCAAGATGTCC 1005
Db 776 TGCCCATTTCTCATCATACCGTGTGTATGCGCTCATGCTGCTGCGCTGCGCAGCGTGC 835
Qy 1006 GCATGCTCTCTGGTCCAAAGAAAGGACAGNATCTTCGAAGGATCACAGGATGGTGC 1065
Db 836 GCCTGCTCTCGGCTCCAAAGAGAGAGGACCGAGCTTCGGCGGATCAAGCGCATGTGTC 895
Qy 1066 TGGTGGTGGTGGTGTGTCTGCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1125
Db 896 TGGTGGTGGTGGGACCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 955
Qy 1126 AAGCCCTGGTTTACATC --- CCAGAACTAAGCTTCCAGACTGTGTTTGGCACTTCTGCA 1182
Db 956 GGACGCTGGTGGACATCAATCGGCGGACCCCACTGTGTGGTGGCGCGCTGCACATTTGCA 1015
Qy 1183 TTGCTCTAGGTATACAAACAGCTGCTCAACCCAGTCTCTTATGCAATTTCTGGATGAA 1242
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Db 1016 TTGCGCTGGGCTACGCCAAACAGCAGCCTCAACCCGGTCTTCTACGCTTCTCTGGACGAGA 1075
Qy 1243 ACTTCAAAAGATGCTTTCAGAGAGTTCGTATCCAAACCTCTTCTCAACATTTGAGCAACAAA 1302
Db 1076 ACTTCAAGCGTGTCTTCCGCCAGCTCTGTGCGCGGCTTGTGCGCGGCGCAAGAACCGGCA 1135
Qy 1303 ACTCCACTCGAAATTCGTCAAGAAC 1327
Db 1136 GCCTCGCGCTGCCCGCCAGGCCAC 1160

RESULT 3
US-11-136-527-2954
; Sequence 2954, Application US/11136527
; Publication No. US20050287570A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William M
; TITLE OF INVENTION: Probe Arrays For Expression Profiling of Rat Genes
; FILE REFERENCE: 031896-041000 (AM101086)
; CURRENT APPLICATION NUMBER: US/11/136,527
; CURRENT FILING DATE: 2005-05-25
; PRIOR APPLICATION NUMBER: US 60/574,294
; PRIOR FILING DATE: 2005-05-26
; NUMBER OF SEQ ID NOS: 362830
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 2954
; LENGTH: 2955
; TYPE: DNA
; ORGANISM: Rattus norvegicus
; US-11-136-527-2954

Query Match      16.8%; Score 362.6; DB 7; Length 2955;
Best Local Similarity 62.8%; Pred. No. 3e-100;
Matches 560; Conservative 3; Mismatches 332; Indels 0; Gaps 0;

Qy 424 TCACGATCATGGCGCTCTACTCCATCGTGTGCGTGGTGGGCTCTTCGGAACCTTCCTGG 483
Db 329 TCACCATCGTGGGCTCTACTTGGCTGTGTGTCATCGGGGGCTCTCTGGGAACTGCTCG 388
Qy 484 TCATGTATGTATGTGTGATACACCAAGATGAAGTGCACCAACATCTACATTTTCA 543
Db 389 TCATGTATGTATGTGTGATACACCAAGATGAAGTGCACCAACATTTACATTTA 448
Qy 544 ACCTTGTCTGGCAGATGCTTAGCCACAGTACCTGCGCTTCCAGAGTGTGAATACC 603
Db 449 ATCTGGCAGTGGCTGTATACCTGTGTGTAACACTGCGCTTCCAGSGSACACATCC 508
Qy 604 TAATGGGAACATGGCCATTTTGGAAACCATCCTTTTGCAGATAGTGTATCTCCATAGATTACT 663
Db 509 TACTGGGCTTCTGGCCATTTTGGGATGCACTCTGCAAGACTGTCTATGCTATCGACTACT 568
Qy 664 ATAACTGTTCACAGCATATTCACCTCTGACCATGAGTGTGTATGATGATGATGAG 723
Db 569 ACAACATGTTTACAGCACTTTTACTCTGACCGCATGAGCGTATGAGCGCTATGCGCTA 628
Qy 724 TCTGCCACCTGTCAAGGCTTAGATTTTCGTTACTCCCGAAATGCAAAATTTCAATG 783
Db 629 TCTGCCACCTTATCCGTCGCTTGTATGTTTGGACATCCAGAAAGCCAGGCTGTATG 688
Qy 784 TCTGCAACTGGATCCTCTCTTTCAGCCATTTGGTCTTCTGTAAATGTTTTCATGCTACAA 843
Db 689 TGGCCATATGGGCTTGGCTTCAAGTGTGTGTGTTCTGTTGCCATCATGGGTTTCAGCAC 748
Qy 844 AATACAGGCAAGGTTTCCATAGATGATACATAACATTTCTCTCATCCAACTGGTACTGGG 903
Db 749 AAGTGGAGATGAAGATCGAGTGTGCTGGAGATCCCTGCGCTTCCAGGACTATTTGGG 808
Qy 904 AAAACCTGTGAAGATCTGTGTTTTCATCTTCGCTTTCATTTATGCCAGTGTCTCATATTA 963
Db 809 GCCCTGTATTGGCCATCTGATCTCTCTTTTCTTCATCATCCCTGTSTGTATCT 868
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QY 964 CCGTGTGCTAGTATCTTGGCGCTCAAGAGTGTCCGATGCTCTCTGGCTCCA 1023
Db 869 CTGTCTGTACAGCTCAATGATTCGACGACTTCTGTGTGTCTCGTCTGCTTCAGGCTCCC 928
QY 1024 AAGAAAAGGACAGGAATCTTCGAAGGATCACCAGGATGCTGTGTGTGTGTGTGTGT 1083
Db 929 GGGAGAAGGACCGAACTTCGCGCGTATCACTCGACTGTGTGTGTGTGTGTGTGTGTGT 988
QY 1084 TCATCGTCTGCTGGACTCCCATTCACATTTAGTTCATCAATTAAGGCTTGGTTACAACTC 1143
Db 989 TTGTGGGCTGTGGACGCTGTGACGCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 1048
QY 1144 CAGAACTACGTTCCAGACTGTTTCTTGGCACTTCGCAATTCGCTTGTGTGTGTGTGTGTGT 1203
Db 1049 CAGGTAGTGAAGTGCAGTGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1108
QY 1204 GCTGCTCAACCCAGTCTCTTATGCAATTTCTGATGAAACTTCAACGATGCTTCAAGAG 1263
Db 1109 GTTGTCTCAATCCATCTCTATGCTTTCTGATGAGAACTTCAAGGCTGCTTTAGAA 1168
QY 1264 AGTTCTGTATCCCAACTCTTCAACATTTGAGCAACAAACTCCACTCGAATTCG 1318
Db 1169 AGTTCTGTCTGTCTTCACTCCCTGCACCGGAGATGCAAGTTCGTATCGTGTGCG 1223

RESULT 4
US-11-136-527-684
; Sequence 684, Application US/11136527
; Publication No. US20050287570A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William M
; TITLE OF INVENTION: Probe Arrays For Expression Profiling of Rat Genes
; FILE REFERENCE: 031896-041000 (AM101086)
; CURRENT APPLICATION NUMBER: US/11/136,527
; CURRENT FILING DATE: 2005-05-25
; PRIOR APPLICATION NUMBER: US 60/574,294
; PRIOR FILING DATE: 2005-05-26
; NUMBER OF SEQ ID NOS: 362830
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 684
; LENGTH: 8372
; TYPE: DNA
; ORGANISM: Rattus norvegicus
US-11-136-527-684

Query Match 10.8%; Score 233; DB 7; Length 8372;
Best Local Similarity 56.4%; Pred. No. 4.1e-60;
Matches 513; Conservative 0; Mismatches 315; Indels 81; Gaps 1;
QY 491 TGTGATTGTGATACACCAAGATGAAGACTGCGCAACATCTACATTTTCAACCTTGC 550
Db 5100 TGTCTCTACAGGCACACCAAGATGAAGACAGCTACCAACATTTACATATTTAATCTGCG 5159
QY 551 TCTGGCAGATGCTTAGCCACCAAGTACCTGCGCTTCCAGAGTGAATTTACCTAATGG 610
Db 5160 ACTGGCTGATACCTGCTGTGTGTAACACTGCGCTTCCAGGACAGACATCTCTACTGG 5219
QY 611 AACATGCCATTTGGAAACCATCTTTGCAAGATGATGATCTCCATAGATTACTATAACAT 670
Db 5220 CTTCCTGCGCATTTGGGAATGCATCTCTGCAAGACTGTCTATGCTATGCACTACTACAACT 5279
QY 671 GTTCACAGCATATTCACCTCTGACCATGATGATGATGATGATGATGATGATGATGATGATG 730
Db 5280 GTTTACAGCACTTTTACTCTGACCGCATGAGCGGTAGACCGCTATGTGCTATCTGCCA 5339
QY 731 CCTGTCAAGGCTTAGATTTCCGTACTCTCCGAAATGCCAAATTTAATGCTGTGCAA 790
Db 5340 CCTATCCGTGCTCTGTATGTTCCGAAATCCAGAAAGCCAGGCTGTTAATGTGGCCAT 5399
QY 791 CTGGATCTCTCTTACGCCATTTGGTCTTCTGTGTAATGTTTATGGCTTACAAACAAA- 845
Db 5400 ATGGGCCCTTGCAGTGTGTGTTCTGCTGTGCTATCATGCTGCTGCTGCTGCTGCTGCTG 5459

QY 846 ----- 845
Db 5460 AGATGAAGTCACTGGTGGTCTCTCTCCCTGACTCATTTAGTTTCCCATGGTCTTGTGCTG 5519
QY 846 -----TACAGCAAGGTTCCATAGATGTACATAACATTTCTCATATCC 889
Db 5520 GTCCCTCTGACCCCATTTCTCTCTGCAGAGATCGAGTGCCTGTGTGGAGATCCCTGCCCC 5579
QY 890 AACCTGTACTGGGAAAAACCTCGTGAAGATCTGTGTTTTCATCTTCGCCCTTCATATGCC 949
Db 5580 TCAGGACTATTGGGGCCCTGTATTGCCCATCTGCACTCTCTCTTTTCTTCTCATATCCC 5639
QY 950 AGTGTCTCATCATTTACCGTGTGCTATGGACTGTATGATCTTGGCGCTCAAGAGTGTCCGCAT 1009
Db 5640 TGTGTGTGATCATCTCTGTCTGTCTGCTCAGCCTCATGATTCGACGACTTCGTGGTGTCT 5699
QY 1010 GCTCTCTGGCTCAAAGAAAAAGGACAGGAATCTTCAAGAGTACACAGGATGGTGTGCT 1069
Db 5700 GCTTTTCAAGCTCCCGGAGAGGACCGAAACCTGCGGCGTATCACTCGACTGTGTGCTGT 5759
QY 1070 GGTGTGCTGTGTTTCATCTGTGTGGACTGCCATTCACATTTAGTTCATCATTAAGC 1129
Db 5760 AGTGTGTGCTGTGTTTGTGGGCTGTGGAACGCTGTGCAAGTGTGTTGCTGCTGCTCAAG 5819
QY 1130 CTGTGTACAAATCCCAAGAACTACGTTCCAGACTGTTTCTTGGCACTTCTGCAATGCTCT 1189
Db 5820 ACTGGGTGTTTCAGCCAGGTAGTGAAGTTCAGTTCCTGCGCTTCTGCAAGCCCT 5879
QY 1190 AGTTTACACAAACAGCTGCTCAACCCAGTCTCTTTATGATGATTTCTGGATGAAACCTCAA 1249
Db 5880 GGGCTATGTCAACAGTGTCTCAATCCCATCTCTATGCTTCTCTGGATGAGAACTCAA 5939
QY 1250 AGCATGCTTCAGAGAGTCTGTATCCCAACCTTCCAAACATTTGAGCAACAAACTCCAC 1309
Db 5940 GGCCTGCTTTAGAAAGTCTGCTGTGCTTCATCCCTGCAACCGGAGATGACAGTCTTCA 5999
QY 1310 TCGAATTCG 1318
Db 6000 TCGTGTGCG 6008

RESULT 5
US-11-136-527-3819
; Sequence 3819, Application US/11136527
; Publication No. US20050287570A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William M
; TITLE OF INVENTION: Probe Arrays For Expression Profiling of Rat Genes
; FILE REFERENCE: 031896-041000 (AM101086)
; CURRENT APPLICATION NUMBER: US/11/136,527
; CURRENT FILING DATE: 2005-05-25
; PRIOR APPLICATION NUMBER: US 60/574,294
; PRIOR FILING DATE: 2005-05-26
; NUMBER OF SEQ ID NOS: 362830
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 3819
; LENGTH: 2116
; TYPE: DNA
; ORGANISM: Rattus norvegicus
US-11-136-527-3819

Query Match 9.1%; Score 197.8; DB 7; Length 2116;
Best Local Similarity 53.2%; Pred. No. 9.5e-50;
Matches 443; Conservative 0; Mismatches 387; Indels 3; Gaps 1;
QY 430 TCATGGCCCTCTACTCCATCGTGTGGTGGGCTCTTCGGAACCTTCTCGGTCATGT 489
Db 504 TCAGGTTATCTACTCTGCTGTGTGGTGGGCTGTGGGCTGTGGGCTGTGGGCTGTGGGCT 563
QY 490 ATGTGATGTTCAGATACACCAAGATGAAGACTGCCCAACCAATCTTACATTTTCAACCTTG 549

Db 564 ACCTCATCTCTCGCTACGCCAGATGAAACCATCACCAACATTTATCATCTCTCAACCTGG 623
Qy 550 CTCTGGCAGATGCTTAGCCACACAGTACCTGCGCTTCCAGAGTGTGAATTACTTAATGG 609
Db 624 CCATCGCAGATGAATCTTTCATGCTGGGGTGGCTTCTTTGGCCATGCGAGTGGCGCTGG 693
Qy 610 GAAACATGGCCATTTGGAAACCATCTTTGCAAGATAGTGAATCTCATAGATTAATAACA 669
Db 684 TCCACTGGCCCTTTTGGCAGGCCATCTGCGGGTGGTTCATCATCTGTGGACGGTATCAACC 743
Qy 670 TGTTCACAGCATATTCACCTCTGACACATAGTGTGTGATTCGATCATTTGAGTCTGCC 729
Db 744 AGTTACACAGTATCTTCTGCTGACGGTTCATGAGCATCGACCGCTTACTGCGCGTGGTCC 803
Qy 730 ACCTGTCAAGGCTTAGATTTCCGTACTCCCGAATGCAAAATTTATCAATGTCTGCA 789
Db 804 ACCCCATTAAGTCAGCCAAATGGAGGCGACCCCGGACAGCAAGATGATCAACGTGGCTG 863
Qy 790 ACTGGATCTCTCTTCAGCCATTGGTCTCTCTGTAATGTTTCATGGCT---ACAACAAAAT 846
Db 864 TGTGGGTGTGTCCTCTGTCATTTGTCATTCATGATATACGCTGGCTCGGAGCA 923
Qy 847 ACAGGCAAGGTTCATAGATTTGACATAACATTTCTCTCATCCAACTGCTGTAATGGAAA 906
Db 924 ACCAGTGGGTAGGAGCAGCTGCACCATCAACTGGCCGGGGAATCCGGGGCATGGTACA 983
Qy 907 ACCTCGTGAAGATCTGTGTTTTCATCTCGCTTCATATGCCAGTCTCATCATTTACCG 966
Db 984 CGGGTTTTCATATCATATGTCCTTCATCTCGGGTTCCTGGTACCCCTAACCATCATCTGTC 1043
Qy 967 TGTGCTATGAGCATGATCTTGGCCTCAAGAGTGTCCGATGCTCTCTGGCTCCAAAG 1026
Db 1044 TCTGCTACCTGTTTCATCATCATCAAGGTGAAGTCTCTGGATCCGAGTGGGTCTGCCA 1103
Qy 1027 AAAAGGACAGGAATCTTCGAAGGATCACAGGATGGTGTGGTGGTGGTGTGTGTCA 1086
Db 1104 AGAGAAAGTCAGAGAAAGGTGACCCGATGGTATCCATCGTGGTGGTGTCTTCA 1163
Qy 1087 TCGTCTCTGAGCTCCCATTCACATTTAGTGCATCATTAAGCCTTGTTTACATCCAG 1146
Db 1164 TCTTCTGCTGGCTCCCTTCTATATCTTCAATGTCTCGTGGTGTCTGTGGCCATCAGCC 1223
Qy 1147 AACTAGTTCAGACGTGTTCTTGGCACTTCTGATGCTCTAGTGTACACAAACAGCT 1206
Db 1224 CCACCTTGGCCCTTAAAGGAGTGTGACITTTGGTGTATCTCCTCACCTACGCCACAGCT 1283
Qy 1207 GCCTCAACCCAGTCTCTTATGCAATTTCTGGATGAAAATCTCAACAGATGCTTC 1259
Db 1284 GCGCAACCCCATCTCTAGCCCTTCTTGTCCGACACTTCAAGAGAGCTTC 1336

RESULT 6
US-10-750-185-36071/c
; Sequence 36071, Application US/10750185
; Publication No. US20050260603A1
; GENERAL INFORMATION:
; APPLICANT: MMI GENOMICS, INC.
; APPLICANT: DENISE, Sue K.
; APPLICANT: KERR, Richard
; APPLICANT: ROSENFELD, David
; APPLICANT: HOLM, Tom
; APPLICANT: BATES, Stephen
; APPLICANT: FANTIN, Dennis
; TITLE OF INVENTION: COMPOSITIONS FOR INFERRING BOVINE TRAITS
; FILE REFERENCE: MM1100-2
; CURRENT APPLICATION NUMBER: US/10/750,185
; CURRENT FILING DATE: 2003-12-31
; PRIOR APPLICATION NUMBER: US 60/437,482
; PRIOR FILING DATE: 2002-12-31
; NUMBER OF SEQ ID NOS: 64922
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 36071
; LENGTH: 1685

; TYPE: DNA
; ORGANISM: Bovine 19866880675545
US-10-750-185-36071
Query Match 9.0%; Score 194.6; DB 6; Length 1685;
Best Local Similarity 51.4%; Pred. No. 7.7e-49; Indels 16; Gaps 3;
Matches 534; Conservative 0; Mismatches 489;
Qy 225 GCTGCCCCCAACCCAGCAATTTGCATGTGCTTGGCGTACTCAAGTTGCTCCC-C 283
Db 1537 GAGACCCCAAGCCGCCCATAGCTGAGATGTTCCCAATGGCACCGCTCTCTCCCTC 1478
Qy 284 AGACCCACCCCGGTTCTGGGTCAACTTGTGCCATCTTAGATGGCAACTGTGCCACCC 343
Db 1477 CTCTCTAGCCCGCAGCCAGGAGCTGCGCGCAAGCGCGCAGGAGGCGCCCGGGC 1418
Qy 344 ATGGGTTCGAACCGCACCAATCTGGCGGGAGAGACAGCTGTGCCCTCCGACCGGAG 403
Db 1417 CGCGCTGCAGACGGGATGGAAGAACCGGGCGGAAACGGGTCCAGAACGGGACCTTGAG 1358
Qy 404 TCCCTCCATGATCACGGCCATCACGATCATGGGCCCTCTACTCCATCGTGTGCGTGGG 463
Db 1357 CGAGGCCCAAGGCGAGCGCTATCTCATCTCTTTTCATCTACTCCGTGTGTGCTGGTGG 1298
Qy 464 GCTCTTCGGAACCTTCTCGTCAATGTATGTGATGTGCAGATACACCAAGATGAAGACTGC 523
Db 1297 GCTCTGTGGNACTTCCATGGTCACTACGTGATCTCTGCGCTACGCCAAGATGAAGACGC 1238
Qy 524 CACCAACATCTACATTTTCAACCTTCTCTGGCAGATGCTTAGCCACACAGTACCCCTGCC 583
Db 1237 CACCAACATCTACATCTCAACCTTGGCCATCGCCGATGAGTCTCATGTCTAGCTGTGCC 1178
Qy 584 CTTCAGAGTGTGAATTTACCTAATGGAAACATGGCCATTTGGAAACCATCTTTTGAAGAT 643
Db 1177 CTTCCTGGTCACTCCACATGCTTCCCACTGGCCCTTCCGGCGGCTACTCTGCGCCCT 1118
Qy 644 AGTGATCTCCATAGATTTACTATAACATGTTTCCAGCATATTCACCTCTGACCATGAG 703
Db 1117 CGTGCTCAGCGTGGACGCGAGTCAACATGTTTCCAGCATCTACTGTCTGACTGTGCTTAG 1058
Qy 704 TGTGATCGATACATTTGCACTGTGCCACCTGTCAAGGCTTATAGTTCCGTAATCCCGG 763
Db 1057 CGTGAGCCGCTAGTGGCGGTGGTGCACCCCATCAAGGCGCGCACGTACCGCGGCCAC 998
Qy 764 AATGCCCCAAATTTCAATGCTCTGCACTGGATCTCTCTTCAGCCATTTGGTCTTTTC- 820
Db 997 CGTGCCCAAGTGGTGAATCTGGCGGTGGTGGTGTCTGTCTGTCTGCTCATCTGCCCCAT 938
Qy 821 TGTAAATGTTTCATGGCTACAAACAAATACAGGCAAGGTTCCATAGATTTGTACACTAAAT 880
Db 937 CGTGGTCTTCTCGGCACGCGCGCCCAACAGCAGCGGCACGGTGGCTTGCAACATGCTCAT 878
Qy 881 CTCTCATCCAACTGGTATCTGGGAAACCTCTGTGAAGATCTGTGTTTTCATCTCGGCTT 940
Db 877 GCGCGAGCCCGCCAGCGCTGGCTGGTGGGCTTCTGTGTTGTACACTTTCTCATGGGCTT 818
Qy 941 CATATGCGCATGCTCATCATTTACCTGCTGTGCTATGAGTGTATGATCTTGGCCCTCAAGAG 1000
Db 817 CCTGCTGCCGCTCGGGCCCATCTGCTGTGTGTGCTACGCTCATCATGCCAAAATCGCAT 758
Qy 1001 TGTCCGCGATGCTCTCTGGCTCCAAAGAAAAGGACAGGAATCTTTCGAAAGGATCACAGGAT 1060
Db 757 GGTGGCCCTCAAGCCCGCTGGCAGCAGCGCAAGCGCTCGAGGCGCAAGATCACCTGAT 698
Qy 1061 GGTGCTGGTGGTGGCTGTGTTTCATGCTGTGTGAGCTCCCATTCACATTTACGTCAT 1120
Db 697 GGTGATGATGGTGTGATGTTGTTGTCATCTGTGGATGCTTCTTATGTGGTGCAGCT 638
Qy 1121 CATTAAGCCCTGTTTACATCCAGAAACTGCTTCCAGACTGTTTCTTGGCACTTCTG 1180
Db 637 AGTCAACGTGTTCCGGGAGGAGGACGACCGCCCGGTGA-----GCCAGCTGTC 590
Qy 1181 CATTTGCTTAGGTTTACAAACAGCTGCCTCAACCCAGTCTCTTATGATTTTCTGGATGA 1240

Db 589 GGTTCATCTCGTTCAGCCACAGCTGGCCAAACCCATCTCTACGGCTTCTTTCAGA 530
QY 1241 AAATCCAAACGATGCTTC 1259
Db 529 CAACTTCAAGCGCTCTTTC 511

RESULT 7

US-10-750-623-36071/c
; Sequence 36071, Application US/10750623
; Publication No. US20050287531A1
; GENERAL INFORMATION:
; APPLICANT: MMI GENOMICS, INC.
; APPLICANT: DENISE, Sue K.
; APPLICANT: KERR, Richard
; APPLICANT: ROSENFELD, David
; APPLICANT: HOLM, Tom
; APPLICANT: BATES, Stephen
; APPLICANT: FANTIN, Dennis
; TITLE OF INVENTION: METHODS AND SYSTEMS FOR INFERRING BOVINE TRAITS
; FILE REFERENCE: MM1100-1
; CURRENT APPLICATION NUMBER: US/10/750,623
; PRIOR FILING DATE: 2003-12-31
; PRIOR APPLICATION NUMBER: US 60/437,482
; PRIOR FILING DATE: 2002-12-31
; NUMBER OF SEQ ID NOS: 64922
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 36071
; LENGTH: 1685
; TYPE: DNA
; ORGANISM: Bovine 19866880675545
US-10-750-623-36071

Query Match 9.0%; Score 194.6; DB 6; Length 1685;

Best Local Similarity 51.4%; Pred. No. 7.7e-49;

Matches 534; Conservative 0; Mismatches 489; Indels 16; Gaps 3;

QY 225 GCTGCCCCACGACCGCAGCAATTGCACATGATGCTTGGCGTACTCAAGTTGCTCCC-C 283
Db 1537 GCAGCCCCACCGGCCCCCATCAGCTGAGATGTTCCCCAAATGGCACCGCCTCTCTCCCTC 1478
QY 284 AGCACCAGCCCGGTTCTGGGTCAACTTGTCCCACTTAGATGGCAACTGTGCCAGCC 343
Db 1477 CTCTCTAGCCCGCAGCCAGGACAGCTGGCGGAGCGCGGACGAGCGGGCCCGGGGC 1418
QY 344 ATGCGGTCCGAAACCGCACCAATCTGGGCGGGAGAGACAGCCTGTGCCCCCTCCGACGGCAG 403
Db 1417 CGGCGCTGCAGACGGGATGGAAGAACCGGGGCGAAACGGGTCCAGAACCGGGACCTTGAG 1358
QY 404 TCCTTCATGATCAGCGGCATCAGATCATGCGCCCTCTACTCCATCGTGTGCGTGGG 463
Db 1357 CGAGGGCCAGGGCAGCGCTATCTCTATCTCTTTTCATCTCGTGTGTGCTGGTGGG 1298
QY 464 GCTCTTCGGAACCTTCTGTGTCATGATGATGTCAGATACACCAAGATGAAGACTGC 523
Db 1297 GCTCTGTGGAACTCCATGTGTATCTAGTGATCTCTGCGTACGCCAAGATGAAGAGCGC 1238
QY 524 CACCAACATCTACATTTTCAACCTTGTCTGCGCAGATGCTTAGCCACCAAGTACCTGCC 583
Db 1237 CACCAACATCTACATCTCAACCTGCGCATCGCCGATGAGTGCTCATGCTCAGCGTGC 1178
QY 584 CTTCCAGAGTGTGAATTAATACCAATGGGAACATGGCCATTTGGNAACCATCTTTGCAAGAT 643
Db 1177 CTTCTCTGGTCACTCCACATTTGCTTCCCACTGSCCTTTCCGGCGCTACTCTGCGCGCT 1118
QY 644 AGTGATCTCCATAGATTACTATAACATGTTTCCACGACATATTCACCTCTTCGACCATGAG 703
Db 1117 CGTGCTCAGGTGGAGCGAGTCAACATGTTTCCACGATCTACTGTCTGACTGTGCTTAG 1058
QY 704 TGTGTATCGATACATTTGCGAGTCTGCCACCTGTGTGAAGGCTTTAGATTTCCGTACTCCCG 763
Db 1057 CGTGGACCGCTACGTGGCGGTGTGTGCACCCATCAAGGCGGACGCTACCGCGGCGCCAC 998

QY 764 AAATCCAAAAATTATCAATGTCTGCAACTGGATCTCTCTCAGCCATTGGTCTTCC--- 820
Db 997 CGTGCCCAAGGTGGTGAATCTGGGCGTGTGGGTGCTGTGCTGCTGCTCATTTCTGCCCAT 938
QY 821 TGTAAATGTTTCATGGCTACAAACAAAATACAGGAAGTTCCATAGATTTGACTAACTAACT 880
Db 937 CGTGGTCTTCTCGCGCACGGCGGCCAAACAGCGACGGCGCTGCAACATGCTCAT 878
QY 881 CTCTCATCAACCTGGTACTGGAAAAACCTCGTGAAGATCTGTGTTTTCATCTTCCGCTT 940
Db 877 GCCCGAGCCCGCCAGCGCTGGCTGGTGGCTTCGTGTTGTATACATTTTCTCATGGGCTT 818
QY 941 CATTATGCCAGTGTCTCATATTACCGTGTGCTATGACCTGATGATCTTGGCGCTCAAGAG 1000
Db 817 CCGTGTGCCCGTGGGGGCATCTGTGTGCTACGTGCTCATCATCGCCAAAATGGCAT 758
QY 1001 TGTCCGATGCTCTCTGGCTCCAAAGAAAAGGACAGGAATCTTGAAGGATCACCAAGAT 1060
Db 757 GGTGGCCCTCAAGGCGCGGTGGCAGCAGCGCAAGCGCTCGGAGCGCAAGATCACCTGAT 698
QY 1061 GGTGCTGGTGGTGGCTGTGTTTCATGCTGCTGGACTCCCATTCACATTTACGTCAT 1120
Db 697 GGTGATGATGGTGGTGGTGTGTTGTCATCTGCTGGATGCTTCTATGTGGTGCAGCT 638
QY 1121 CATTAAAGCCTTGGTTTACAATCCCAAGAACTACGTTTCCAGACTGTTTCTTGGCACTTCTG 1180
Db 637 AGTCAACGTGTTCCGGGAGCAGGACGACCGCACGGTGA-----GCCAGCTGTC 590
QY 1181 CATTGCTCTAGGTTACACAAACAGCTGCTCAACCAAGTCTCTTTATGCAATTTCTGATGA 1240
Db 589 GGTCACTCTCGTTACGCCAACAGCTGGCCCAACCCCATCTCTACGGGCTTCTTTTCAGA 530
QY 1241 AAATTTCAACGATGCTTC 1259
Db 529 CAACTTCAAGCGCTCTTTC 511

RESULT 8

US-10-995-561-321
; Sequence 321, Application US/10995561
; Publication No. US2005027054A1
; GENERAL INFORMATION:
; APPLICANT: CARGILL, Michele et al.
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; TITLE OF INVENTION: CARDIOVASCULAR DISORDERS AND DRUG RESPONSE, METHODS OF
; TITLE OF INVENTION: DETECTION AND USES THEREOF
; FILE REFERENCE: CL001559
; CURRENT APPLICATION NUMBER: US/10/995,561
; CURRENT FILING DATE: 2004-11-24
; NUMBER OF SEQ ID NOS: 85702
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 321
; LENGTH: 1238
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-995-561-321

Query Match 8.7%; Score 187.6; DB 6; Length 1238;

Best Local Similarity 51.9%; Pred. No. 8.6e-47;

Matches 434; Conservative 8; Mismatches 382; Indels 12; Gaps 1;

QY 424 TCACGATCATGCGCCCTCTACTCCATCGTGTGGTGGGCTCTTCGGAATCTTCTCG 483
Db 214 TCGCTATCAAGTGCATCTACGCGCTGGTGTGCTGGTGGGCTGGTGGGCAACGCCCTGG 273
QY 484 TCATGTATGTGATTTGTCCAGATACACCAAGATGAAGACTGCCACCAACTCTACTTTTCA 543
Db 274 TCATCTTGTGATCTCTCGTIACGCCAGATGAAGCGGTACCAACATCTACCTGCTCA 333
QY 544 ACCTTGTCTGTGCAGATGCTTTAGCCACCAAGTACCTGCGCCCTTCAGAGTGTGAATTAC 603
Db 334 ACCTGGCGGTAGCCGACGAGCTCTTCATGCTGAGCGTGGCCCTTCGTTGGGCTCGTGGCGG 393

Query Match 8.7%; Score 187.6; DB 6; Length 86131;
Best Local Similarity 51.9%; Pred. No. 2.1e-45; Indels 12; Gaps 1;
Matches 434; Conservative 8; Mismatches 382;

QY 424 TCACGATCATGGCCCTCTACTCCATCGTGTGCGTGGGGCTCTTCGGAACCTTCCTCG 483
DB 6215 TCAGTATGATGTCAGATACACCAAGATGAAGACTGCGCACCACATCTACATTTTCA 543
QY 484 TCATGATGATGTCAGATACACCAAGATGAAGACTGCGCACCACATCTACATTTTCA 543
DB 6275 TCATCTTCGTGATCTTCGTAGCCCAAGATGAAGCGGTACCAACATCTACTCTCTCA 6334
QY 544 ACCTTGCTCTGGCAGATGCTTAGCCACCAGTACCCTGCCCTCCAGAGTGTGAATTACC 603
DB 6335 ACCTGGCCGAGCCGACGAGCTTTTCATGCTGAGCGTGCCCTTCGTGGCCCTGCGGCCG 6394
QY 604 TAAATGGAACATGGCCATTGGAAACCATCTTTTGAAGATAGTGTATCTCCATAGATTACT 663
DB 6395 CCCTGGCCACTGGCCCTTCGGCTCGTGTGCGCGGGTGTCTCAGGGTCGACGGCC 6454
QY 664 ATAAATGTTACACAGATATTCACCCCTGACACCATGAGTGTGTGATACATTTGACG 723
DB 6455 TCAACATGTTACACAGCGTCTTCTGTCTACCCGTGCTCAGCGTGGACCGCTACGTGGCCG 6514
QY 724 TCTGCCACCCCTGCAAGGCCCTTAGATTTCGGTACTCCCGAATGCAAAATTTATCAATG 783
DB 6515 TGGTGACACCTCTGCGCGGGGAGCCTTACCGGGGCCAGCGTGGCCAAAGCTCATCAACC 6574
QY 784 TCTGCAACTGGATCTCTCTTCAGCCATTGGTCTTCTGTATGTTTCATGGCTTACAACAA 843
DB 6575 TGGCGGTGTGGCTGGCATCCCTGTGTGCTACTCTCCCATCGGCATCTTCGACAGACCA 6634
QY 844 AATACAGGCAAGGTTCCATAGATTTGACATAACATTTCTCATCCAACTGCTGATCGGG 903
DB 6635 GACCGGCTCGCGCGGCCAGGCGGTGGCCAACTGCAACCTGCAAGTGGCCACACCCCGCCTGGT 6694
QY 904 AAAACCTCGTGAAGATCTGTGTTTCATCTTCGCCCTTCAATTATGCGCAGTGCATCATTA 963
DB 6695 CGGCACTGTTTCGGTGTCTACACTTCTCTGGGGTTCCTGTGCGCGGTGCTGGCCATTTG 6754
QY 964 CCCTGTGCTATGACTGATGATCTTGGCCCTCAAGAGTGTCCGCATGCTCTCTGGCTCCA 1023
DB 6755 GYCTGTGCTACCTGCTCATCTGCGGCAAGATGCGCGCCGTGGCCCTGYCGMKGGTGGC 6814
QY 1024 AAGAAAGGACAGGAATCTTCGAAGATACACAGGATGCTGTGCTGTGGTGTGGTGTGT 1083
DB 6815 AGCAGCGCAGGCGCTCGGAGAGAAATACACAGGCTGTGCTGTGATGGTGTGCTGTCT 6874
QY 1084 TCATCTGCTGCTGGACTCCCATTCACATTTACGTATCATTTAAAGCCTTGGTTACATCC 1143
DB 6875 TTGTGCTGTCTGGATGCGCTTTCTACGTGTGAGCTGTCTGAACTCTKTCGTGACAGCC 6934
QY 1144 CAGAAACTACGTTCCAGACTGTTTCTTGGCATTCTGCAATTGCTTAGGTACACAAACA 1203
DB 6935 TTGATGCCACCGTCAAC-----CAGTGTCCCTTATCTTCTTATGCTATGCAAYA 6982
QY 1204 GCTGCTCAACCGATCTCTTATGCAATTTCTGATGAAACCTTTCAACGATGCTTC 1259
DB 6983 GCTGCGCAACCCYAATCTCTATGGVTTCTCTCTCCGACAACTTCCGCGCATYCTTC 7038

RESULT 11
US-11-136-527-2101
; Sequence 2101, Application US/11136527
; Publication No. US20050287570A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William M
; TITLE OF INVENTION: Probe Arrays For Expression Profiling of Rat Genes
; FILE REFERENCE: 031896-041000 (AM101086)
; CURRENT APPLICATION NUMBER: US/11/136,527
; CURRENT FILING DATE: 2005-05-25

; PRIOR APPLICATION NUMBER: US 60/574,294
; PRIOR FILING DATE: 2005-05-26
; NUMBER OF SEQ ID NOS: 362830
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 2101
; LENGTH: 3635
; TYPE: DNA
; ORGANISM: Rattus norvegicus
US-11-136-527-2101

Query Match 8.2%; Score 177; DB 7; Length 3635;
Best Local Similarity 52.6%; Pred. No. 3.5e-43;
Matches 443; Conservative 0; Mismatches 385; Indels 15; Gaps 2;
QY 420 GCATCAGATCATGGCCCTCTACTCCATCGTGTGGTGGGGCTCTTCGGAACACTTC 479
DB 316 GCCATTCTCATCTCTTTTCATCTACTCCGTGGTGTATGCTTGGTGGGACTGTGTGGGAACCTCC 375
QY 480 CTGGTTCATGTATGTGTGTAGATACACCAAGATGAAGACTGCCACCAACATCTACATT 539
DB 376 ATGGTCATTTAGTGTATCTCTGGCTACGCCAAGATGAAGACCGCAACCAACATCTACATT 435
QY 540 TTCAACCTTGTCTTGGCAGATGCCCTTAGCCACAGTACCCCTGCCCTTCCAGAGTGTGAAT 599
DB 436 CTAAACCTGGCCATTGCTGATGAGCTGTCTATGCTCAGCGTGCCTTTCTGTGCTCACTCC 495
QY 600 TACCTAATGGGAACATGGCCATTTGGAAACCATCTTTCGAAGATAGTGTATCTCCATAGAT 659
DB 496 AGCGTGTGTGGCCACTTGGCCCTTTGGCGGCTACTTTGGCGCTGTGTGCTCAGCGTGGAT 555
QY 660 TACTATAACATGTTCAACAGCATATTTACCCCTCTGCACCATCAGTGTGTTGATCGATACATT 719
DB 556 GAGTCAACATGTTCAACAGCATCTACTGTCTGACTGTGCTGTAGTGTGACCGCTATGTG 615
QY 720 CGAGTCTGCCCTGTCAAAGCCCTTAGATTTCCGTACTTCCCGGAAATGCCAAATTTATTC 779
DB 616 GCTGTGGWGCACCCGATCAAGGCAGCGCTACTACCGTCCGCCCACTGTGTGCCAAAGTAGTG 675
QY 780 ATGTGTCGCACTGATCTCTCTTCAGCCATTTGCTCTCCGTAAATGTTTCATGGC---T 836
DB 676 AACCTGGGGGTGTGGGTGCTGTGCTGTATCTGCTGTTATCTTGCCCATCGTGTCTCTCACGC 735
QY 837 ACAACAAATAACAGCAAGGTTTCCATAGATTGTACACTAACATTTCTCTCATCCAACTGG 896
DB 736 ACCGAGCCCAACAGCGATGGCAGCGTGGCTGCAACATGCTCATGCCGAGCCGCCCCAG 795
QY 897 TACTGGGAAAACCTCGTGAAGATCTGTGTTTTCATCTTCGCCCTTCATTTATGCAAGTGTCTC 956
DB 796 CGCTGTTGGTGGGCTTCGTCTTATACACATTTCTCATGGGCTTCTCTGCTGCTGTCTCGGG 855
QY 957 ATCATTAACGCTGTGATGATGATCTTTCGCCCTCAAGAGTGTCCGCATGCTCTCT 1016
DB 856 GCCATCTGCTGCTGTGTAGTGTCTCATTTGCCAAGATGGCATGTTGGCCCTCAAGGCC 915
QY 1017 GGCTCCAAAGAAAAGGACAGGAATCTTCGAAGGATCACCAGGATGGTGTGGTGGTGGT 1076
DB 916 GGCTGGCAGCAGCGCAAGCGCTCAGAGCGCAAGATCACTTAATGGTGTATGATGGTGGT 975
QY 1077 GCTGTGTTTCATGCTGTGTTGACTCCCATTTCAATTTACATTTTACATTAAGACCTTGGTT 1136
DB 976 ATGGTTTTTGTCTCATCTGCTGGATGCTTCTACGTGGTACAGCTAGTCAACGCTGTTCGCC 1035
QY 1137 ACAATCCCAAGAACTTACGTTCCAGACTGTTTCTTGGCACTTCTGATGCTCTAGGTTAC 1196
DB 1036 GAGCAAGACGACGCCACGGT-----GAGCCAGTGTGTGTCTCATCTCTCGGCTAT 1083
QY 1197 ACAAAACAGCTGCTCAACCCAGTCTCTTATGATTTTTCGATGAAAACCTTTCAAAACGATGC 1256
DB 1084 GCCAATAGCTGTGCCAACCCCATCTCTACGGCTTCTCTCGGACAACTTCAAGCGCTCT 1143
QY 1257 TTC 1259
DB 1144 TTC 1146

```
RESULT 12
US-11-136-527-2159
; Sequence 2159, Application US/11136527
; Publication No. US20050287570A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William M
; TITLE OF INVENTION: Probe Arrays For Expression Profiling of Rat Genes
; FILE REFERENCE: 031896-041000 (AM101086)
; CURRENT APPLICATION NUMBER: US/11/136,527
; CURRENT FILING DATE: 2005-05-25
; PRIOR APPLICATION NUMBER: US 60/574,294
; PRIOR FILING DATE: 2005-05-26
; NUMBER OF SEQ ID NOS: 362830
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 2159
; LENGTH: 1384
; TYPE: DNA
; ORGANISM: Rattus norvegicus
; US-11-136-527-2159

Query Match      8.0%; Score 172.6; DB 7; Length 1384;
Best Local Similarity 52.2%; Pred. No. 3.8e-42;
Matches 435; Conservative 0; Mismatches 389; Indels 9; Gaps 2;

Qy 438 CTCCTACTCCATCGTGGTGGTGGGCTCTTCGGAACCTTCCTGGTCACTGATGATTT 497
Db 280 CTCCTACTGTTGGTGTGCACCGTGGGACTGAGTGGAAATACACTGGTCAATATGTTG 339
Qy 498 GTCAGATACACAGATGAACACTGCCACCAACATCATATTTCAACCTTGTCTGCGCA 557
Db 340 CTGGGCGACGCGAAGATGAACAGATTACTAACTGTATCATCTGAACTGGCGCTGCT 399
Qy 558 GATGCTTTAGCCACAGTACCTGCCCTTCCAG---AGTGTGAATTACCTTAATCGGAACA 614
Db 400 GACGTATATTTATGTTGGGACTTCTTCTGCGCCAGCAGACGCGTGTCTCTAC 459
Qy 615 TGGCCATTTGAAACATCTTTGAGATAGTGTCTCCATAGATTTACTATAAATGTTTC 674
Db 460 TGGCCCTTCGGCTCTCTTGTGGCGCTGTGATGACACTGGATGGCATCAACAGTTC 519
Qy 675 ACCAGCATATTTACCTCTGCACATGAGTGTGATCATATGATGATGCGTCTGCCACCT 734
Db 520 ACCAGTATCTTCTGCTGATGGTCATGAGTGTGACCGCTACCTGGCGGTGGTCAACCT 579
Qy 735 GTCAGGCTTTAGATTTCCGCTACTCCCGAAATGCCAAATATCAATGTCTGCAACTGG 794
Db 580 CTCGCTCAGCCCGGTGGCTGCGCCAGGGTAGCAGATGGCCAGCGCGCTCTGG 639
Qy 795 ATCTCTCTTCAGCATTTGCTCTCTGTAATGTTTATGTTGCTAACAATAATAGGCA 854
Db 640 GTCTTTTCGCTGCTCATGTCTGCGCTCTTGGTCTTCG-----CGGATGTCCAGGAG 693
Qy 855 GGTTCATAGATTGACACTAATCTCTCATCCAACCTGGTACTGGGAAACCTCGTG 914
Db 694 GGTGGGACCTCTGCAACTCTGAGCTGGCCAGAGCGTGTGGGGGTGCGACCTTC 753
Qy 915 AAGATCTGTGTTTTCATCTTCGCTTTCATTTATGCGAGTGTCTCATATPACCGTGTGCTAT 974
Db 754 ATACCTACAGCTCTGTGTTGGGCTTCTTTGGGCGCTTGTGCTCATCTGTCTGTGCTAC 813
Qy 975 GGACTGATGATCTTTCGCGCTCAAGAGTGTCCGATGCTCTCTGGCTCAAAAGAAAGAC 1034
Db 814 CTGCTCAATGTGGTCAAGGTGAAGGCTGCAGGCTAGCGCTAGGCTCTCAAGGCGGAGG 873
Qy 1035 AGGAATCTTCAGAGATCACCAGGATGCTGTGGTGTGGTGTGGTGTGCTCATCTGCTGC 1094
Db 874 CGCTCGGAGCGGAGAGGTGACTCGCATGGTGTGGTGTGGTGTGGTGTGGTGTGGTGTGC 933
Qy 1095 TGGACTCCCATTCACATTTAGCTCATATTAAGGCTTTGCTTAACAATCCAGAAACTACG 1154
Db 1154 TGGACTCCCATTCACATTTAGCTCATATTAAGGCTTTGCTTAACAATCCAGAAACTACG 1154

RESULT 13
US-11-136-527-3742
; Sequence 3742, Application US/11136527
; Publication No. US20050287570A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William M
; TITLE OF INVENTION: Probe Arrays For Expression Profiling of Rat Genes
; FILE REFERENCE: 031896-041000 (AM101086)
; CURRENT APPLICATION NUMBER: US/11/136,527
; CURRENT FILING DATE: 2005-05-25
; PRIOR APPLICATION NUMBER: US 60/574,294
; PRIOR FILING DATE: 2005-05-26
; NUMBER OF SEQ ID NOS: 362830
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 3742
; LENGTH: 1560
; TYPE: DNA
; ORGANISM: Rattus norvegicus
; US-11-136-527-3742

Query Match      7.3%; Score 158.8; DB 7; Length 1560;
Best Local Similarity 50.5%; Pred. No. 7.1e-38;
Matches 422; Conservative 0; Mismatches 402; Indels 12; Gaps 1;

Qy 424 TCACGATCATGGCCCTCTACTCCATCGTGTGGTGTGGGCTCTTCGGAACCTTCCTGG 483
Db 341 TAACTATCCAGTGCATCTATCGCTCTGTGTGTCTGTGGTGGGCTGTGTAGGAACCGCC 400
Qy 484 TCATGATGTGATGTGCAGATACACCAAGATGAAGACTGCCACCAACATCTTACATTTTCA 543
Db 401 TCATATTCGTGATCTTACGCTATGCGCAATATGCGCAATATGCGCAATCTTACCTGTCTCA 460
Qy 544 ACCTTGCTCTGGCAGATGCGCTTAGCCACAGTACCTCGCCCTTCCAGAGTGTGAATTACC 603
Db 461 ACCTGGCGCTGCTGTATGAGCTCTTCTGCTCAGTGTGCCATTTGTGSCCTCGCGGCTG 520
Qy 604 TAATGGGAACATGGCCATTTTGGAAACCATCTTTGGCAAGATAGTGTATCTCCATAGATTACT 663
Db 521 CCCTGCGCCACTGGCCGTTTCGGGCGGTGTGTGCGCGGAGTGTCTTAGTGTGGACGCGCC 580
Qy 664 ATAACATGTTTCAACAGCATATTCACCTCTGCACCATGAGTGTGTGATGATGATGATGCGAG 723
Db 581 TTAACATGTTTCAACAGATGCTCTTTCGCTCAGAGTGTGTGCGCTGAGTGTGATGATGATGCG 640
Qy 724 TCTGCCACCTGTCAAGGCGCTTAGATTTCCGTACTCCCGAAATGCCAAATATTAATCAATG 783
Db 641 TAGTGACCTCTCTGCGAGTGTGCCACCTACCGGCGCCAGCGGTGGCCAGTATTAACAC 700
Qy 784 TCTGCAACTGGATCCTCTCTTCAGACCATTTGGTGTCTTCTGTAAATGTTTCAATGCTACACAA 843
Db 701 TGGGAGTGTGGCTAGCATCTTGTGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 760
Qy 844 AATAACAGGCAAGGTTTCCATAGATGTATGATGATGATGATGATGATGATGATGATGATGATG 903
Db 761 GGCCAGCTCTGTTGGGCGGTGAGGCAAGTGTGCAACCTGCACTGCGCTTCCACCGGCTGTGT 820
Qy 904 AAAACCTCTGGAAGATCTGTGTTTTCATCTTCGCTTTCATTTATGCGAGTGTCTCATATTA 963
Db 821 CTGAGTCTTTGTGATCTATATCTTTTGTGGGCTTCTTACTCCCGGTTCTGCGTATCG 880
Qy 964 CCGTGTCTATGGACTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1023
Db 1023 CCGTGTCTATGGACTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1023
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Db 881 GATTATGTTACCTGCTTATCGTGGCAAGATCGTCTGTGGCCCTGTGGGGCTGGCTGGC 940
Qy 1024 AAGAAAGACAGGAATCTTCGAAGGATACACAGGATGCTGTGGTGGTGGTGGTGT 1083
Db 941 AACACGGAGACCTCAGAGAAGAAGATCACTAGGCTCGTCTAAATGSGTGGTACTGTCT 1000
Qy 1084 TCATCGTCTGCTGGACTCCCATTCACATTTAGCTCATATAAGCCCTTGTGTACAACTC 1143
Db 1001 TTGTGCTATGCTGGATGCGCAATCTATGTAGTGACGCTTCGAACTGTGTTGTACACAGCC 1060
Qy 1144 CAGAAACTAGTTCACAGACTGTTTCTTGGCACTTCTGCAATTCCTAGTGTACACAAACA 1203
Db 1061 TCGATGCCACTGTCAACCAATGTGCTCCCTCATCTCAGCTATGCC-----AACA 1108
Qy 1204 GTCGCTCAACCCAGTCTTTATGCAATTTCTGATGAAAACTTCAACAGATGCTTC 1259
Db 1109 GCTGTGCCAACCCGATTCTCTATGTTCTCTCAGACAACTTCCGACGCTCTTTC 1164

RESULT 14
US-10-533-355-9
; Sequence 9, Application US/10533355
; Publication No. US20050272040A1
; GENERAL INFORMATION:
; APPLICANT: University of Medicine and Dentistry of New Jersey
; APPLICANT: Black, Ira B.
; TITLE OF INVENTION: A METHOD FOR INCREASING SYNAPTIC GROWTH OR PLASTICITY
; FILE REFERENCE: UMD-0016
; CURRENT APPLICATION NUMBER: US/10/533,355
; CURRENT FILING DATE: 2005-04-29
; PRIOR APPLICATION NUMBER: US 60/422,986
; PRIOR FILING DATE: 2002-11-01
; NUMBER OF SEQ ID NOS: 16
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 9
; LENGTH: 1865
; TYPE: DNA
; ORGANISM: Rattus norvegicus
US-10-533-355-9

Query Match 7.3%; Score 158.8; DB 6; Length 1865;
Best Local Similarity 50.5%; Pred. No. 8.1e-38;
Matches 422; Conservative 0; Mismatches 402; Indels 12; Gaps 1;
Qy 424 TCAGATCATGGCCCTCTACTCATCGTGTGGTGGGCTCTTCGGAATCTTCTGG 483
Db 189 TAACTATCCAGTGCATCTATGCGCTCGTGTGTGGTGGGCTGTGGTAGGAAACGCCCTGG 248
Qy 484 TCATGTATGTGTTGTCAGATACACCAAGATGAAGACTGCCACCAACATCTACATTTCA 543
Db 249 TCATATCGTGATCTTACGCTATGCGCAATGAAGACAGCCACCAACATCTACCTGCTCA 308
Qy 544 ACCTTGCTCTGGCAGATGCTTAGCCACCAAGTACCTGCCCTTCCAGAGTGTGAATACC 603
Db 309 ACCTGGCCGCTGCTGATGAGCTCTTCATGCTAGTGTGCCATTTGTGGCTCGGGGCTG 368
Qy 604 TAATGGGAACATGGCCATTTGGAAACCATCTTTTGAAGATATGATCTCCATAGATTACT 663
Db 369 CCCTGGCCCACTGGCCGTTTCGGGGCGGTGTGTGCCGCGCAGTGTCTAGTGTGGACGGCC 428
Qy 664 ATAACTATGTTCAACGATATTCACCTCTGACCATGATGTTGATTCGATCATATTTGACG 723
Db 429 TTAACATGTTACGAGTGTCTTCTGCTTCACAGTCTCAGCGTGGATCGCTATGTGGCTG 488
Qy 724 TCTGCCACCTGTCAAGGCTTAGATTTCGTTACTCCCGGAAATGCAAAATTTATCAATG 783
Db 489 TAGTGACACCTCTGCGAGCTGCCACCTACCGGGGCCAGCGTGGCCAGCTAATCAACC 548
Qy 784 TCTGCAACTGGATCTCTCTTACAGCCATTGGTCTTCTGTATATGTTTCATGGGTACAAAC 843
Db 549 TGGGAGTGTGGCTAGCATCTTCTGCTGTCACCTGCCCCATCGCAGTCTTTCGCTGACACTA 608

Qy 844 AATACAGGCAAGGTTTCCATAGATTGTACATAACAATTTCTCATCAACCTGGTACTGGG 903
Db 609 GCCCAGCTCGTGGGGGTGAGGCAGTAGCTTGCAACTGCACCTGACCCGGCTGTGT 668
Qy 904 AAAACCTCGTGAAGATCTGTGTTTTCATCTTCGCCCTTCAATATGCGAGTGTCTCATTTA 963
Db 669 CTGCAGTCTTTGTGTATCTATACTTTTTTGTGGGGTTCCTACTCCGGTTCCTGGCTATCG 728
Qy 964 CCGTGTGCTATGAGCTGATGATCTTTCGCCCTCAAGAGTGTCCGCACTCTCTGGCTCCA 1023
Db 729 GATTATGTTACTCGCTTATCGTGGGCAAGATCGTGTGGCCCTCGGGCTGGCTGGC 788
Qy 1024 AAGAAAAGCAGAGGAATCTTCGAAGGATCACACAGGATGCTGTGGTGGTGTGT 1083
Db 789 AACACGGAGGCGCTCAGAGAAGAATCACTAGGCTCGTGTAAATGGTGGTACTGTCT 848
Qy 1084 TCATCGTCTGCTGGACTCCCATTCACATTTAGTGTATCAATTAAGCCTTGGTTACAATCC 1143
Db 849 TTGTGCTATGCTGGATGCGCAATCTCTATGATGTAGTGCAGCTTCTGAATCTGTTGTACCAGCC 908
Qy 1144 CAGAACTAGCTTCCAGACTGTTTCTTGGCACTTCTGCAATTCCTAGTGTACACAAACA 1203
Db 909 TCGATGCCACTGTCAACCAATGTGCTCCCTCATCTCAGCTATGCC-----AACA 956
Qy 1204 GCTGCTCAACCCAGTCTTTATGCAATTTCTGGATGAAAACTTCAACAGATGCTTC 1259
Db 957 GCTGTGCCAACCCGATTCTCTATGTTCTTCTCAGACAACTTCCGACGCTCTTTC 1012

RESULT 15
US-10-750-185-62128/c
; Sequence 62128, Application US/10750185
; Publication No. US20050260603A1
; GENERAL INFORMATION:
; APPLICANT: MMI GENOMICS, INC.
; APPLICANT: Denise, Sue K.
; APPLICANT: KERR, Richard
; APPLICANT: ROSENFELD, David
; APPLICANT: HOLM, Tom
; APPLICANT: BATES, Stephen
; APPLICANT: FANTIN, Dennis
; TITLE OF INVENTION: COMPOSITIONS FOR INFERRING BOVINE TRAITS
; FILE REFERENCE: MM1100-2
; CURRENT APPLICATION NUMBER: US/10/750,185
; CURRENT FILING DATE: 2003-12-31
; PRIOR APPLICATION NUMBER: US 60/437,482
; PRIOR FILING DATE: 2002-12-31
; NUMBER OF SEQ ID NOS: 64922
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 62128
; LENGTH: 856
; TYPE: DNA
; ORGANISM: Bovine 19866881260208
US-10-750-185-62128

Query Match 7.0%; Score 151.8; DB 6; Length 856;
Best Local Similarity 93.0%; Pred. No. 6.4e-36;
Matches 159; Conservative 0; Mismatches 12; Indels 0; Gaps 0;
Qy 1209 CTCAACCCAGTCTTTTATGCAATTTCTGGATGAAAACTTCAAACGATGCTTCAGAGATTTC 1268
Db 856 CTGAACCCCGTCTTTTATGCAATTTCTGGATGAAAACTTCAAACGATGCTTCAGAGATTTC 797
Qy 1269 TGTATCCCAACCTCTTCCAACTTTCAGCAACAAAACCTCCACTCGAATTCGTGAGACACT 1328
Db 796 TGTATCCCAACTTCTCCACCATTCAGCAGCAAAAACCTCCACTCGAATTCGTGAGACACC 737
Qy 1329 AGAGACCAACCCCTCCACGCGCAATACAGTGGATAGAACTAATCATCAGCTA 1379
Db 736 AGAGACCAACCCCTCCACGCGCAATACAGTGGATAGAACTAATCATCAGCTA 686

Search completed: January 9, 2006, 15:42:37

Job time : 311.514 secs

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Result No.	Score	Query		Length	DB	ID	Description
		Match	%				
1	2158.4	99.8	2162	7	US-11-127-877A-18		Sequence 18, Appl
2	442.4	20.5	1773	7	US-11-271-383-3		Sequence 3, Appl
3	441.6	20.4	2219	7	US-11-271-383-1		Sequence 1, Appl
4	433.2	20.0	1143	7	US-11-302-678-21		Sequence 21, Appl
5	433.2	20.0	1182	7	US-11-302-678-19		Sequence 19, Appl
6	433.2	20.0	4959	8	US-60-751-420-1861		Sequence 1861, Ap
7	187.6	8.7	1167	8	US-60-751-458-1983		Sequence 1983, Ap
8	182.4	8.4	4343	8	US-60-751-420-2833		Sequence 2833, Ap
9	161.6	7.5	1002	8	US-60-751-455-2819		Sequence 2819, Ap
10	149	6.9	987	8	US-60-751-420-1859		Sequence 1859, Ap
11	149	6.9	7563	8	US-60-740-736-19		Sequence 19, Appl
12	143	6.6	1257	8	US-60-751-458-1982		Sequence 1982, Ap
13	141.4	6.5	2123	8	US-60-742-219-749		Sequence 749, App
14	100.6	4.7	7563	8	US-60-740-736-102		Sequence 102, App
C	94	4.3	7563	8	US-60-740-736-230		Sequence 230, App
		4.3	3219	7	US-11-224-525-594		Sequence 594, App
16	93.4	4.3	3219	7	US-11-224-663-594		Sequence 594, App
17	93.4	4.3	3219	7	US-11-224-663-594		Sequence 594, App
18	86.4	4.0	169	7	US-11-271-383-6		Sequence 6, Appl
19	85.4	4.0	1339	7	US-11-224-525-596		Sequence 596, App
20	85.4	4.0	1339	7	US-11-224-663-596		Sequence 596, App
21	83.2	3.8	1945	7	US-11-127-877A-27		Sequence 27, Appl
22	79.2	3.7	2156	6	US-10-555-734-20		Sequence 20, Appl
23	79.2	3.7	2690	7	US-11-314-565-85		Sequence 85, Appl
24	77.8	3.6	1309	8	US-60-751-420-3333		Sequence 3333, Ap
25	76.6	3.5	2347	7	US-11-127-877A-28		Sequence 28, Appl

Qy	181	CGCAGCGGTGCCGGCCGGCCGCTCAGTACATGACAGCAGCGCTGCCCCACGAAACG	240
Db	181	CGCAGCGGTGCCGGCCGGCCGCTCAGTACCATGGACAGCAGCGCTGCCCCACGAAACG	240
Qy	241	CCAGCAATTGCACATGATGCTCTTGCGGTACTCAAGTTGCTCCCGACGACCCAGCGCCCGGTT	300
Db	241	CCAGCAATTGCACATGATGCTCTTGCGGTACTCAAGTTGCTCCCGACGACCCAGCGCCCGGTT	300
Qy	301	CCTGGGTCAACTGTCGCCACTTAGATGGCAACCTGTCCGACCCCATCGGTCCGAAACGCGCA	360
Db	301	CCTGGGTCAACTGTCGCCACTTAGATGGCAACCTGTCCGACCCCATCGGTCCGNAACGCGCA	360
Qy	361	CCAATCTGGGCGGAGAGACAGCCTGTGCCCTCCGACCGGCGAGTCCCTCCATGATCAAGG	420
Db	361	CCAACCTGGGCGGAGAGACAGCCTGTGCCCTCCGACCGGCGAGTCCCTCCATGATCAACGG	420
Qy	421	CCATCAGATCATGGCCCTCTACTCCATCGTGTGGGTGGTGGGCTCTTCGGAAACCTTCC	480
Db	421	CCATCAGATCATGGCCCTCTACTCCCATCGTGTGGGTGGGCTCTTCGGAAACCTTCC	480
Qy	481	TGGTCATGTATGTGATTGTCCAGATACACCAAGATGAAGACTGCCACCAACATCTACATTT	540
Db	481	TGGTCATGTATGTGATTGTCCAGATACACCAAGATGAAGACTGCCACCAACATCTACATTT	540
Qy	541	TCAACCTTGCTCTGGCAGATGCTTTAGCCACCAAGTACCCCTGCTCCAGAGTGTGAATT	600
Db	541	TCAACCTTGCTCTGGCAGATGCTTTAGCCACCAAGTACCCCTGCTCCAGAGTGTGAATT	600
Qy	601	ACCTAATGGGAACATGSCCATTTTCGAACCACTCTTCGAAGATAGTCATCTCCATAGATT	660
Db	601	ACCTAATGGGAACATGSCCATTTTCGAACCACTCTTCGAAGATAGTCATCTCCATAGATT	660
Qy	661	ACTATAACATGTTCAACGACATATTCACCTCTGCACCATGAGTGTGTGATCGATACATTG	720
Db	661	ACTATAACATGTTCAACGACATATTCACCTCTGCACCATGAGTGTGTGATCGATACATTG	720
Qy	721	CAGTCTGCCACCTGTCAAGGCCCTTAGATTTCCGTACTCTCCCGAAATGCCAAATATATCA	780
Db	721	CAGTCTGCCACCTGTCAAGGCCCTTAGATTTCCGTACTCTCCCGAAATGCCAAATATATCA	780
Qy	781	ATGTCGCAACTGGATCCTCTCTTCAGCCATTTGGTCTTCTGTAACTGTCATGCGTACAA	840
Db	781	ATGTCGCAACTGGATCCTCTCTTCAGCCATTTGGTCTTCTGTAACTGTCATGCGTACAA	840
Qy	841	CAAAATACAGCAAGGTTCCATAGATTTGACATAACATTTCTCTCATCCAACTGGTACT	900
Db	841	CAAAATACAGCAAGGTTCCATAGATTTGACATAACATTTCTCTCATCCAACTGGTACT	900
Qy	901	GGGAAAACCTCGTGAAGATCTGTGTTTTCATCTTCGGCTTCATTATCGCAGTGTCTATCA	960
Db	901	GGGAAAACCTCGTGAAGATCTGTGTTTTCATCTTCGGCTTCATTATGCCAGTGTCTATCA	960
Qy	961	TTACCGTGTGCTATGGACTGATGATCTTGGCCCTCAAGAGTGTCCGATGCTCTCTGGCT	1020
Db	961	TTACCGTGTGCTATGGACTGATGATCTTGGCCCTCAAGAGTGTCCGATGCTCTCTGGCT	1020
Qy	1021	CCAAAGAAAAGGACAGGAATCTTCGAAGGATCACCGATGGTGTGGTGGTGGCTG	1080
Db	1021	CCAAAGAAAAGGACAGGAATCTTCGAAGGATCACCGATGGTGTGGTGGTGGCTG	1080
Qy	1081	TGTTTCATCGTCTGCTGACTCCCAATTCACATTTACGTCATCATTTAAAGCCTTGGTTACAA	1140
Db	1081	TGTTTCATCGTCTGCTGACTCCCAATTCACATTTACGTCATCATTTAAAGCCTTGGTTACAA	1140
Qy	1141	TCCCAGAAAACCTACGTTCCAGACTGTTTCTTGGCACTTTCTGCAATGCTCTAGGTTACAAA	1200
Db	1141	TCCCAGAAAACCTACGTTCCAGACTGTTTCTTGGCACTTTCTGCAATGCTCTAGGTTACAAA	1200
Qy	1201	ACAGCTGCCTCAACCCAGTCTCTTTATGCAATTTCTGGATGAAAACCTTCAAAACGATGCTTCA	1260
Db	1201	ACAGCTGCCTCAACCCAGTCTCTTTATGCAATTTCTGGATGAAAACCTTCAAAACGATGCTTCA	1260

Qy	1261	GAGAGTTCGTGTATCCAAACCTCTTCCAAACATTTGAGCAACAAAACTCCATCTCGAATTCGTCTC	1320
Db	1261	GAGAGTTCGTGTATCCAAACCTCTTCCAAACATTTGAGCAACAAAACTCCATCTCGAATTCGTCTC	1320
Qy	1321	AGAACACTAGAGACACCCCTCCACGGCCAAATACAGTGGATAGAACTAATCATCATCAGCTAG	1380
Db	1321	AGAACACTAGAGACACCCCTCCACGGCCAAATACAGTGGATAGAACTAATCATCATCAGCTAG	1380
Qy	1381	AAAATCTGGAAGCAGAGAAACTGCTCCGTTGCCCTTAAACAGGGTCTCATGCCATTCCGACCTT	1440
Db	1381	AAAATCTGGAAGCAGAGAACTGCTCCGTTGCCCTTAAACAGGGTCTCATGCCATTCCGACCTT	1440
Qy	1441	CACCAAGCTTAGAAGCCACCATGTATGTGGAACGAGGTTGCTTCAAGAAATGTGTAGGAGG	1500
Db	1441	CACCAAGCTTAGAAGCCACCATGTATGTGGAACGAGGTTGCTTCAAGAAATGTGTAGGAGG	1500
Qy	1501	CTCTAATCTCTAGGAAAGTGCCTACTTTTGTAGGTCAATCCAACTCTTCTCTCTGGCCA	1560
Db	1501	CTCTAATCTCTAGGAAAGTGCCTACTTTTGTAGGTCAATCCAACTCTTCTCTCTGGCCA	1560
Qy	1561	CTCTGCTCTGCACATTAGAGGGAACGCCAAAAGTAAAGTGGAGCATTTGGGAAGGAAAGGAA	1620
Db	1561	CTCTGCTCTGCACATTAGAGGGAACGCCAAAAGTAAAGTGGAGCATTTGGGAAGGAAAGGAA	1620
Qy	1621	TATACACACCGAGGAGTCCAGTTTGTGCNAGACACCCAGTGGAAACAAACCCATCTGTCG	1680
Db	1621	TATACACACCGAGGAGTCCAGTTTGTGCNAGACACCCAGTGGAAACAAACCCATCTGTCG	1680
Qy	1681	GTATGTGAATTGAAGTCATCATAAAAGSTGACCCCTTCTGTCTGTAAAGATTTTATTTTCAA	1740
Db	1681	GTATGTGAATTGAAGTCATCATAAAAGSTGACCCCTTCTGTCTGTAAAGATTTTATTTTCAA	1740
Qy	1741	GCAAAATATTATGACCTCAACAAAGGAAGAACCATCTTTTGTAAAGTTTCCCGTAGTAACA	1800
Db	1741	GCAAAATATTATGACCTCAACAAAGGAAGAACCATCTTTTGTAAAGTTTCCCGTAGTAACA	1800
Qy	1801	CATAAAGTAAATGCTACCTCTGATCAAGACACTTGAATGGGAAGGTCGAGTCTTTTATAG	1860
Db	1801	CATAAAGTAAATGCTACCTCTGATCAAGACACTTGAATGGGAAGGTCGAGTCTTTTATAG	1860
Qy	1861	TGTTTTTGCNAGGGAATGAATCCATTTTCTATTTTTAGACTTTTTTAACCTTCAACCTTAAAT	1920
Db	1861	TGTTTTTGCNAGGGAATGAATCCATTTTCTATTTTTAGACTTTTTTAACCTTCAACCTTAAAT	1920
Qy	1921	TAGCATCTGGCTAAGGCATCATTTTCCATCTTCTGGTTTTGTATTTGTTTTAAAAAA	1980
Db	1921	TAGCATCTGGCTAAGGCATCATTTTCCATCTTCTGGTTTTGTATTTGTTTTAAAAAA	1980
Qy	1981	AATAACATCTCTTTTCACTAGCTCCATATTTGCAAGGGAAGAGATTAGCATGAAGGTTAA	2040
Db	1981	AATAACATCTCTTTTCACTAGCTCCATATTTGCAAGGGAAGAGATTAGCATGAAGGTTAA	2040
Qy	2041	TCGTGAACAACAGTCATGTGTGCANCTGTAGAAAGGTTGATTTCTCATGCACCTNCAAACTT	2100
Db	2041	TCGTGAACAACAGTCATGTGTGCANCTGTAGAAAGGTTGATTTCTCATGCACCTNCAAACTT	2100
Qy	2101	CCAAAGAGTCATCATGGGGATTTTTCAITCTTTAGGCTTTTCAAGTGGTTTGTCTCTCGAAT	2160
Db	2101	CCAAAGAGTCATCATGGGGATTTTTCAITCTTTAGGCTTTTCAAGTGGTTTGTCTCTCGAAT	2160
Qy	2161	TC 2162	
Db	2161	TC 2162	

RESULT 2
US-11-271-383-3
; Sequence 3, Application US/11271383
; GENERAL INFORMATION:
; APPLICANT: Allen, Keith D.
; TITLE OF INVENTION: DELTA OPIOID RECEPTOR DISRUPTIONS,
; TITLE OF INVENTION: COMPOSITIONS AND METHODS RELATING
; FILE REFERENCE: R-678
;

; CURRENT APPLICATION NUMBER: US/11/271,383
; CURRENT FILING DATE: 2005-11-09
; PRIOR APPLICATION NUMBER: US/10/112,599
; PRIOR FILING DATE: 2002-09-05
; PRIOR APPLICATION NUMBER: US 60/280,513
; PRIOR FILING DATE: 2001-03-29
; NUMBER OF SEQ ID NOS: 6
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 3
; LENGTH: 1773
; TYPE: DNA
; ORGANISM: Homo sapiens
US-11-271-383-3

Query Match 20.5%; Score 442.4; DB 7; Length 1773;
Best Local Similarity 63.8%; Pred. No. 5e-119;
Matches 687; Conservative 0; Mismatches 386; Indels 3; Gaps 1;

Qy	282	CCAGCACCCAGCCCGGTTCTGGGTCAACTTGTCCCACTTAGATGGCAACCTGTCCGAC	341
Db	240	CCGGCCCCCTCCGGCGCGAGCTGCAGCCCCGGCTCTTCGCCAAGGCTCGGACGCC	299
Qy	342	CCATGCGGTCCGAACCCGACCAATCTCGGCGGGAGACAGACCTGTGCCCTTCGACCGGC	401
Db	300	TACCTAGGCGCTTCCCAGCGCTGGGCCCAATCGTCGGGGCGCCAGGACCGGGAGC	359
Qy	402	AGTCCCTCATGATCAGGGCATCAGCATCATGCGCCCTCTACTTCATCGTGTGGTGGTG	461
Db	360	GCCTCGTCCCTCGCCCTGGCAATGCCATCACCGCGCTCTACTCGGCGGTGTGGCCGTG	419
Qy	462	GGGCTCTCGGAATCTTCTCGTCAATGTATGTGATGTGCAGATACCAAGATCAAGACT	521
Db	420	GGGCTGTGGCAACGCTGCTTGTATGTTCCGGATCGTCCGGTACACTAGATGAGACG	479
Qy	522	GCCACCAACATCTACATTTTCAACCTTGTCTCGCAGATGCTTTCAGCCACAGTACCCTG	581
Db	480	GCCACCAACATCTACATTTTCAACCTTGTCTCGCAGATGCTTTCAGCCACAGTACCCTG	539
Qy	582	CCCTTCAGAGTGAATTAATCTAATGGGAACATGGCCATTTGGAAACATCTTTGCAAG	641
Db	540	CTTTTCCAGAGTGGCAAGTACCTGATGGAGACGTTGGCCCTTCGCGAGCTGCTTGAAG	599
Qy	642	ATAGTGATCTCCATAGATTACTATAAATGTTTCCAGCATATTCACCTCTCGCACCATG	701
Db	600	GCTGTGCTCTCCATGACTACTACATATGTTTCCAGCATATTCACCTCTCGCACCATG	659
Qy	702	AGTGTGATCGATACATTCAGTCTGCCACCCCTGTCAAGGCTTTAGATTTCCGTACTCC	761
Db	660	AGTGTGACCGCTACATCGCTGTCTGCCACCCCTGTCAAGGCTTCCGACGCGCT	719
Qy	762	CGAAATGCCAAATTTATCAATGCTGCAACTGGATTCCTCTTCAGCCATTTGGTTCCT	821
Db	720	GCCAAAGGCAAGCTGATCAACATCTGTATCTGGGTCTTGGGCTCAGGCGTTGGCGTCC	779
Qy	822	GTAATGTCATGGCTACAAACAAATACAGGCAAGGTTCCATAGATTGTACACTAACATTC	881
Db	780	ATCATGTCATGGCTGTACCCCGTCCCCGGGACGCTGCAGTGTGATGCTCAGTTC	839
Qy	882	TCTCATCCAACTGGTACTGGGAAACCTCGTGAAGATCTGTGTTTTTTCATCTTCGCCCTC	941
Db	840	CCCAGCCCGAGTGGTACTGGGACACGCTGACCAAGATCTGGTGTCTCTTCGCCCTTC	899
Qy	942	ATTATGCCAGTCTCATCATTTACCGTGTGCTATGACATGTATGATCTTCGCGCTCAGAGT	1001
Db	900	GTGGTGCCCATCTCATCATCACCGTGTGCTATGGCTTCATGCTGCTGCGCTGCGCAGT	959
Qy	1002	GTCGCATGCTCTCGGCTCCAAAGAAAGGACAGGAATCTTCGAAGATCACCAAGGATG	1061
Db	960	GTGGCGCTGCTGTGCGGCTCCAAAGGAGAGGACCGCAGCTGCGCGGCAATCAGCGCATG	1019
Qy	1062	GTGCTGGTGGTGGTGTGTTTCATCGTCTGTGCTGCACTCCCAATTCACATTTACGTATC	1121
Db	1020	GTGCTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGT	1079

Qy	1122	ATTAAAGCCCTTGGTTACAAT---CCAGAAATACGTTCCAGACTGTTTCTTGGCACTTC	1178
Db	1080	GTCTGGACGCTGCTGGACATCGACCGCGCGACCCGCTGGTGGTGGCTGCGCTGACCTG	1139
Qy	1179	TGCATTGCTCTAGGTTACACAACAGCTGCTCAACCCAGTCTCTTTATGCAATTTCTGGAT	1238
Db	1140	TGCATCGGCTGGGCTACGCCAATAGCAGCCTCAACCCCGTGTCTACGGTCTTCTCGAC	1199
Qy	1239	GAAAACTTCAAAACGATGCTTTCAGAGAGTTCGTATCCCAACCTCTTTCACAACTTGAGCAA	1298
Db	1200	GAGAATTTCAAGCGCTGCTTCCGCCAGCTCTGCCGCAAGCCCTTGGGCGCCGCCAGACCC	1259
Qy	1299	CAAAACTTCCACTCGAATTCGTACAGACATAGAGACCAACCCCTTCACGGGCAATATAC	1354
Db	1260	AGCAGCTTCAGCGCGCCCGCGAAGCACCGCGCGAGCGTGTACCGGCTGCAC	1315

RESULT 3

US-11-271-383-1
; Sequence 1, Application US/11271383
; GENERAL INFORMATION:
; APPLICANT: Allen, Keith D.
; TITLE OF INVENTION: DELTA OPIOID RECEPTOR DISRUPTIONS,
; TITLE OF INVENTION: COMPOSITIONS AND METHODS RELATING THERETO
; FILE REFERENCE: R-678
; CURRENT APPLICATION NUMBER: US/11/271,383
; CURRENT FILING DATE: 2005-11-09
; PRIOR APPLICATION NUMBER: US/10/112,599
; PRIOR FILING DATE: 2002-09-05
; PRIOR APPLICATION NUMBER: US 60/280,513
; PRIOR FILING DATE: 2001-03-29
; NUMBER OF SEQ ID NOS: 6
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1
; LENGTH: 2219
; TYPE: DNA
; ORGANISM: Mus musculus
US-11-271-383-1

Query Match 20.4%; Score 441.6; DB 7; Length 2219;
Best Local Similarity 67.2%; Pred. No. 9.8e-119;
Matches 640; Conservative 0; Mismatches 309; Indels 3; Gaps 1;

Qy	406	CCTCCATGATCAGCGCCATCAGCATCATGGCCCTCTACTCATCGTGTGCTGGGGC	465
Db	189	CGTCCCTCGCCCTAGCCATCGCCATCACC GGCTCTACTCGGCTGTGCGCAGTGGGGC	248
Qy	466	TCTTCGAAATCTTCTCGTCAATGATGTGTGATGATGATGATGATGATGATGATGATGATG	525
Db	249	TTCTGGGCAAGTGCTCGTCAATGATGATGATGATGATGATGATGATGATGATGATGATG	308
Qy	526	CAAACATCTACATTTTCAACCTTGTCTGGCAGATGCTTAGCCACGATCCCTGCCCT	585
Db	309	CCAACTCTACATTTTCAACCTTGTCTGGCAGATGCTTAGCCACGATCCCTGCCCT	368
Qy	586	TCCAGAGTGAATTTACTTAATGGAAACATGGCCATTTGGAAACCATCTCTTTCGAAGATAG	645
Db	369	TCCAGAGCGCCAGTACTTGTATGAAAGAGTGGCGCTTGGCGAGCTGTGTGCAAGGCTG	428
Qy	646	TGATCTCCATAGATTACTATAACATGTTACACAGCATATTCACCTCTGCAACATGAGTG	705
Db	429	TGCTCTCCATTTGACTACTACAAATGTTTCACTAGCATCTTTCACCTCACCATGATGAGCG	488
Qy	706	TTGATCGATACATTTGAGTCTGCCACCTGTCAAGGCTTAGATTTCCGTTACTCCCGAA	765
Db	489	TGGACCGCTACATTTGCTGTCTGCCATCTCTGTCAAAGCCCTGAGCTTCCGGACACAGCCA	548
Qy	766	ATGCCAAATTTATCAATGTCTGCAACTGGATCCCTCTCTTCAGCCATTTGGTCTTCTCTGTA	825
Db	549	AGGCCAGCTGATCAATATATATGATCTGGGTCTTGGCTTCAAGTGTGCGGGTCCCCATCA	608
Qy	826	TGTTTCATGGCTACAAACAAATACAGGCAAGGTTCCATAGATTGTACACTAAACATTTCTCTC	885

Db 609 TGGTCATGTCAGTACCCAAACCCGGGATGGTGCAGTGGTATGCTCCAGTTCCTCCCA 668
Qy 886 ATCAAACCTGGTACTCGGAAAACTCGTGAAGATCTGTGTTTTCATCTTCGGCTTCATTA 945
Db 669 GTCCAGCTGGTACTCGGACACTGTGACCAAGATCTGCGTGTCTCTTTGCTTCGTGG 728
Qy 946 TGCAGTGTCTCATATTACCGTGTGCTATGGACTGATCTTTCGCGCTCAAGAGTGTCC 1005
Db 729 TGGCGATTCCTCATCATACGGTGTGCTATGGCTCATGTACTGCGCTTCGCGAGGTGC 788
Qy 1006 GCATCTCTCTGCTCCAAAGAAAGACAGGAAATCTTCGAAGGATCACCAGGATGGTGC 1065
Db 789 GTCTGTCTCGGTTCCAGGAGAGGACCGAGCTTCGGCGCATCAGCGCATGGTGC 848
Qy 1066 TGTGTGTGTGGTGTGTTCACTGTCTGTGGAATCCCAATTCATTTACATTTACGTTCATTA 1125
Db 849 TGTGTGTGTGGGCGCTTCGTGTGTGCTGGCGGCCCATCCACATCTTCGTTCATCGTCT 908
Qy 1126 AAGCCTTGGTTCAATC---CCAGAACTAGTTCCAGACTGTTTTCGCACTTCTGCA 1182
Db 909 GGACGCTGTGGACATCAATCGCGCGACCCCACTTGTGTGGCGGCACCTGCCTGTGCA 968
Qy 1183 TTGCTCTAGTTTACAAACAGCTGGCTCAACCCAGTCCCTTTATGCAATTTCTGGATGAAA 1242
Db 969 TTGGCTGGGCTAGCGCAACAGCAGCTCAACCGGTTCTTACGCTTCCTGGACGAGA 1028
Qy 1243 ACTTCAAACGATGCTTCAGAGATTCGTATATCCAACTCTTCCAAATTTGAGCAACAAA 1302
Db 1029 ACTTCAAGCGCTGCTTTCGCGAGCTCTGTGCGACGCTTCGCGCGCCCAAGAACCCGGCA 1088
Qy 1303 ACTGCACTCGAATTCGTGCAACACTAGAGACACCCCTCCAGCGCCAAATAC 1354
Db 1089 GTCTCCGTCGTCCCGCAGGCCACCAACCGCTGAGCGGTGTCATGCTGCTGCAC 1140

RESULT 4

US-11-302-678-21
; GENERAL INFORMATION:
; Sequence 21, Application US/11302678
; APPLICANT: Millennium Pharmaceuticals, Inc.
; APPLICANT: Silos-Santiago, Immaculada
; APPLICANT: Venkateswarlu, Karicheti
; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR TREATING
; TITLE OF INVENTION: UROLOGICAL DISORDERS USING 1435, 559, 34021, 44099, 25278,
; TITLE OF INVENTION: 641, 260, 55089, 21407, 42032, 46656, 62553, 302, 323,
; TITLE OF INVENTION: 12303, 985, 13237, 13601, 18926, 318, 2058 OR 6351 MOLECULES.
; FILE REFERENCE: MPI02-012PIRNM OMNI
; CURRENT APPLICATION NUMBER: US/11/302,678
; CURRENT FILING DATE: 2005-12-14
; PRIOR APPLICATION NUMBER: US/10/345,680
; PRIOR FILING DATE: 2003-01-16
; PRIOR APPLICATION NUMBER: US 60/349,511
; PRIOR FILING DATE: 2002-01-18
; PRIOR APPLICATION NUMBER: US 60/360,500
; PRIOR FILING DATE: 2002-02-28
; PRIOR APPLICATION NUMBER: US 60/365,041
; PRIOR FILING DATE: 2002-03-15
; PRIOR APPLICATION NUMBER: US 60/374,063
; PRIOR FILING DATE: 2002-04-19
; PRIOR APPLICATION NUMBER: US 60/403,468
; PRIOR FILING DATE: 2002-08-14
; PRIOR APPLICATION NUMBER: US 60/414,262
; PRIOR FILING DATE: 2002-09-27
; PRIOR APPLICATION NUMBER: US 60/419,986
; PRIOR FILING DATE: 2002-10-21
; PRIOR APPLICATION NUMBER: US 60/423,809
; PRIOR FILING DATE: 2002-11-05
; PRIOR APPLICATION NUMBER: US 60/429,797
; PRIOR FILING DATE: 2002-11-26
; NUMBER OF SEQ ID NOS: 66
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 21

; LENGTH: 1143
; TYPE: DNA
; ORGANISM: Homo Sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (1) ... (1143)
US-11-302-678-21

Query Match 20.0%; Score 433.2; DB 7; Length 1143;
Best Local Similarity 66.2%; Pred. No. 1.9e-116;
Matches 659; Conservative 0; Mismatches 9; Gaps 2;

Qy 337 CCGACCCATGCGGTCCGAAACCGCACCAATCTCGGGGGGAGACAGCCTGTGCTCCCGA 396
Db 92 CCGGTCTGGCCGAGCCGACAGCAAGCGCAGCGCGGCTCGAGAGCGCGCAGCTGGAGC 151
Qy 397 CCGGCAGTCCCTCCATGATCAGGGCAATCACGATCATGCGCCCTCTACTCATCGTGTGG 456
Db 152 CCGCGCACATCTCCCGGCCATCCCGGTCAATCATCAGCGCGGTCTACTCCGTAGTGTGG 211
Qy 457 TGGTGGGCTCTTCGGNAACCTTCCTGGTCACTATGTGATTGTCTCAGATACACCAAGTGA 516
Db 212 TCGTGGGCTTGTGGGCAACTCGCTGGTCACTGTTCGTGATCATCGATACACAAAGTGA 271
Qy 517 AGACTGCCACCAACATCTACATTTTCAACCTTGTCTGCGAGATGCTTTAGCCACCAGTA 576
Db 272 AGACAGCAACCAACATTTACATATTTAACCTGGCTTTGGCAGATGCTTTAGTTACTCAA 331
Qy 577 CCCTGCCCTTCAGAGTGTGAATTAACCTAAATGGGAACATGGCCATTTTGAAACCATCTTT 636
Db 332 CCATGCCCTTTCAGAGTACGGTCTACTTGAATTTCTCTGGGCTTTTGGGGATGTCTGT 391
Qy 637 GCAAGTAGTGTCTCCATAGATTACTATAACATGTTTACACAGCATATTTACCCCTCGCA 696
Db 392 GCAAGATAGTAATTTCCATTGATTTACTACAAATGTTTACCAGCATCTTCACCTTGACCA 451
Qy 697 CCATGAGTGTGATCGATACATTGCACTGTGCACTGCGACCCCTGTCAAGGCTTTAGATTTCCGTA 756
Db 452 TGATGAGCGTGGACCGCTACATTCGCTGTGCGACCCCGTGAAGGCTTTGGACTTCGCA 511
Qy 757 CTCCCGGAAATGCCAAATTAATCAATGTCTGCAATGGATCCCTCTCTTCAGCCATTTGGTC 816
Db 512 CACCCTTGAAGGCAAAAGATCATCAATATCTGCATCTGGCTGTCTGTCTCATCTGTTGGCA 571
Qy 817 TTCTGCTAATGTTCATGGCTACACAAATATACAGGCA-----GGTTCCATAGATTGA 870
Db 572 TCTCTGCAATAGTCTCTGGAGGACCAAAAGTCAGGGAAGACGTGATGTCTTTAGTGTCT 631
Qy 871 CACTAACATTTCTCTCATCCAACTGGTACTGGGAAAACCC---TCGTGAAGATCTGTGTTT 927
Db 632 CTTTGCAGTTCACAGATGATGACTACTCTCTGTGGGACCTCTTTCATGAAGATCTGGTCT 691
Qy 928 TCATCTTCGCTTCATTAATGCGAGTGTCTCATATTACCGTGTGCTATGAGACTGATGATCT 987
Db 692 TCATCTTTGCTTCGTGATCCCTCTCATCATCATCTCTGTCTACACCTGATGATCC 751
Qy 988 TCGGCTCAGAGTGTCCGCACTGCTCTGGCTCCAAAGAAAGAGACAGAAATCTTCGAA 1047
Db 752 TCGGCTTCAAGAGCGTCCGGCTCTTTCTGGCTCCGAGAGAAAGATCCGACCTCGGTA 811
Qy 1048 GGATCACCAGGATGGTGTGGTGTGGTGTGTTTCATCTGTCTGCTGACTCCCATTC 1107
Db 812 GGATCACCAGACTGGTCTCTGGTGTGGTGTGGTGTGGTGTGGTGTGGTGTGGTGTGGTGT 871
Qy 1108 ACATTTACGTATCATTAAGCCTTGGTTTCAATCCAGAAACTACGTTCCAGACTGTTT 1167
Db 872 ACATATTTCTCTGTGGAGGCTCTGGGAGGACCTCCCAACAGCACAGCTGCTCTCTCCA 931
Qy 1168 CTGGCACTTCTGCATTGCTCTAGGTTACAAAGAGCTGCTCAACCCAGTCTCTTTATG 1227
Db 932 GCTATTTACTTCTGCACTCGCTTAGGCTATACCAACAGTAGCTGAATCCCATCTCTACG 991
Qy 1228 CATTTCTGGATGAAAACCTTCAAAACGATGCTTTCAGAGAGTTCGTATATCCCAACCTCTTCCA 1287


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; CURRENT FILING DATE: 2005-12-19
; NUMBER OF SEQ ID NOS: 27266
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1861
; LENGTH: 4959
; TYPE: DNA
; ORGANISM: Homosapiens
US-60-751-420-1861

Query Match      20.0%; Score 433.2; DB 8; Length 4959;
Best Local Similarity 66.2%; Pred. No. 4.3e-116;
Matches 659; Conservative 0; Mismatches 328; Indels 9; Gaps 2;

QY 337 CGGACCCATCGGTCCGAACCGCACCAATCTGGGGGGGAGAGACAGCCCTGTGCCCTCCGA 396
DB 327 CCGGCTGGGCGGAGCCGACAGACAGCGAGCGCCGCTCGGAGGAGCGGAGCTGGAGC 386

QY 397 CGGGCAGTCCCTCCATGATCAGCGGCATCAGCATATGCCCCTCTACTCCATCGTGTGG 456
DB 387 CGCGCACATCTCCCGGCCATCCCGGTATCATCAGCGGCTACTCCGTAGTGTTCG 446

QY 457 TGGTGGGCTCTTCGGAACTTCTCGTGTATGTATGTGATTTGTCAGATACACCAAGATGA 516
DB 447 TCGTGGGCTTGGTGGCAACTCGCTGGTATGTGTCGTGATCATCCGATACACAAAGATGA 506

QY 517 AGACTGCCCAACATCTACATTTTCAACCTTCTCTGGCAGATGCTTTAGCCACCAGTA 576
DB 507 AGACAGAACCAACATTTACATATTTAACTGGCTTTGGCAGATGCTTTAGTTACTACAA 566

QY 577 CCCTGCCCCTCCAGAGTGTGAATTAACCTAATGGAAACATGGCCATTTGGAACCATCTTT 636
DB 567 CCATGCCCTTTCAGACTACGGTCTACTTGTATGAATTCCTGGCCTTTTGGGATGTGCTGT 626

QY 637 GCAAGATAGTATCTCCATAGATTACTATPAACATGTTCACAGCATATTCACCTCTGCA 696
DB 627 GCAAGATAGTAATTTCCATTTGATTACTACAAATGTTTCCACGACATCTTCACCTTGACCA 686

QY 697 CCATGATGTGTGATCGATACATTCAGTCTGCCACCTCTCAAGGCTTAGATTTCCGTA 756
DB 687 TGATAGCGTGGACCGCTACATTTGCGGTGTCACCCCGTGAAGGCTTTGGACTTCCGCA 746

QY 757 CTCCCGAAATGCCAAAATTAATCAATGTCTGCAACTGGATCTCTCTTCAGGCATTTGGTCT 816
DB 747 CACCCTTGAAGGCAAGATCATCAATATCTGCATCTGGCTGTGCTGTCATCTGTTGGCA 806

QY 817 TTCCTGTAAATGTTTCAATGGCTAACAACAAATACAGGCAA-----GGTTCATAGATTGTA 870
DB 807 TCTCTGCAATAGTCTTGGAGGCAACCAAGTCAGGGAAGACGTCGATGTCAATTGAGTGTCT 866

QY 871 CACTAACATTTCTCATCCAACTGGTACTGGGAAACC---TCGTGAAGATCTGTGTTT 927
DB 867 CTTTGCAGTTCACAGATGATGATCTCTCTGTGGGACCTCTTCATGAAGATCTGGGTCT 926

QY 928 TCATCTTCGCTTCATTAATGCCAGTGTCTCATCATTAACCGTGTGCTATGGACTGATGATCT 987
DB 927 TCATCTTTGGCTTCGTGATCCCTGTCTCTCATCATCATGCTGTCTACTACACCTGATATCC 986

QY 988 TGGCCTCAAGAGTGTCCGATGCTCTCTGGTTCACAAAGAAAGGACAGAAATCTTTCGAA 1047
DB 987 TGGCTCTCAAGACGTCGCGCTCTTTCTGGCTCCCGAGAGAAAGATCGCAACTTCGCTA 1046

QY 1048 GGATCACAGGATGGTGTGGTGGTGGTGTGTTTCATGCTCTGCTGGACTCCCATTC 1107
DB 1047 GGATCACAGACTGGTCCCTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGG 1106

QY 1108 ACATTTACGTTCATTAAGCCCTTGTGTACATCCAGAACTACGTTTCCAGACTGTTT 1167
DB 1107 ACATATTCATCTGGTGGAGGCTCTGGGAGACACTCCACACGACAGCTGTCTCTCCA 1166

QY 1168 CTTTGGCACTTCTGCATTTGCTTAGGTATACAAACAGCTGCCTCAACCCAGTCCCTTATG 1227
DB 1167 GCTATTACTTCTGCATCGCCTTAGGCTATACCAACAGTAGTCCGCTGAATCCATCTCTACG 1226
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QY 1228 CATTTCTGGATGAAAACTTCAACGATGCTTCAGAGAGTTCGTATCCCAACTCTTCCA 1287
DB 1227 CTTTCTTGTGATGAAAACTTCAAGCGGTGTTTCCGGGACTTCTGCTTCCACTGAAGATGA 1286

QY 1288 ACATTGAGCAACAAAACCTCCACTCGAAATTCGTGAGA 1323
DB 1287 GGATGGAGCGGCAGAGCACTAGCAGAGTCCGAAATA 1322

RESULT 7
US-60-751-455-1983
; Sequence 1983, Application US/60/751455
; GENERAL INFORMATION:
; APPLICANT: Radich, Jerald P.
; APPLICANT: Dai, Hongyue
; APPLICANT: Mao, Mao
; APPLICANT: Scheiter, Janelle
; APPLICANT: Linsley, Peter S.
; TITLE OF INVENTION: GENES ASSOCIATED WITH PROGRESSION AND RESPONSE IN
; TITLE OF INVENTION: CHRONIC MYELOID LEUKEMIA AND USES THEREOF
; FILE REFERENCE: 9301-253-888
; CURRENT APPLICATION NUMBER: US/60/751,455
; CURRENT FILING DATE: 2005-12-15
; NUMBER OF SEQ ID NOS: 7936
; SOFTWARE: FastSeq 4.01
; SEQ ID NO 1983
; LENGTH: 1167
; TYPE: DNA
; ORGANISM: Homo sapiens
US-60-751-455-1983

Query Match      8.7%; Score 187.6; DB 8; Length 1167;
Best Local Similarity 52.6%; Pred. No. 1.2e-44;
Matches 440; Conservative 0; Mismatches 384; Indels 12; Gaps 1;

QY 424 TCACGATCATGGCCCTCTACTCCATCGTGTGCTGGTGGGCTCTTCGGAATCTTCTGG 483
DB 143 TCGCTATCCAGTGCATCTACGCGCTGTGCTGTGGGGCTGTGGGCAACGCCCTGG 202

QY 484 TCATGTATGTGATTTGTCAGATACACCAAGATGAAGACTGCCACCAACATCTACATTTCA 543
DB 203 TCATCTTCTGTGATCTCTCGTACGCAAGATGAAGACGCTACCACTACCTACCTGCTCA 262

QY 544 ACCTTGTCTCTGCAGATGCTTTAGCCACCAGTACCTGCCCTTCAGAGTGTGAATTACC 603
DB 263 ACCTGGCGGTAGCCGACGAGCTCTTCACTGCTAGGCTGCCCTTGTGGCTGTGGCGCG 322

QY 604 TAATGGGAACATGGCCATTTTGAACCATCTCTTTGCAAGATAGTGTATCTCCATAGATTACT 663
DB 323 CCTTGGCCACTTGGCCCTTTCGGCTCGTGTCTGCGCGCGGTGTCTCAGCGTCGACGGCC 382

QY 664 ATAAATGTTTCAACGATATTTCAACCTCTGCAACATGATGTTGATTCGATACATTTGAG 723
DB 383 TCAACATGTTTCAACGCGTCTTCTGTCTCACCGTGTCTCAGCGTGGACCGCTAGCTGGCCG 442

QY 724 TCTGGCCACCTCTCAAGGCTTTAGATTCCTGCTACCTCCCGAAATGCAAAATTTATCAATG 783
DB 443 TGGTGCACCTCTGCGCGCGGACCTACCGCGCGCCAGCGTGGCCAAAGCTCATCAACC 502

QY 784 TCTGCAACTGGATCTCTCTTTCAGCCATTTGGTCTTCTGTTGTTGTTTTCATGGCTTACAA 843
DB 503 TGGGCGTGTGGCTGGCATCCCTGTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTG 562

QY 844 AATAAGGCAAGTTCATAGATTGTATACACTAACATTTCTCTCATCAACCTGGTACTGGG 903
DB 563 GACCGCTCGCGCGCGCCAGGCGCTGCAACCTGCAAGTGGCCACACCCCGGCTGTGT 622

QY 904 AAAACCTCGTGAAGATCTGTGTTTTCATCTTCCCTTTCATTTATGTCAGGCTCATCATTA 963
DB 623 CGGCGAGTCTTCTGTGTTTACACTTTTCTGCTGGGCTTCTGCTGCCCGTGTGGCCATTG 682

QY 964 CGGTGTGCTATGGACTGATGATCTTTGGCGCTCAAGAGTGTCCGATGCTCTCTGGCTCCA 1023
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RESULT 11

US-60-740-736-19

; Sequence 19, Application US/60740736

; GENERAL INFORMATION:

; APPLICANT: Cottrell, Susan

; APPLICANT: Model, Fabian

; APPLICANT: Haefliger, Carolina

; APPLICANT: Weiss, Gunter

; APPLICANT: Diatler, Juergen

; APPLICANT: Sledziowski, Andrew Z.

; APPLICANT: Song, Xiaoling

; APPLICANT: Skillman, Tom

; APPLICANT: Thomas, Jeff

; TITLE OF INVENTION: METHODS AND NUCLEIC ACIDS FOR THE ANALYSIS OF GENE EXPRESSION ASS

; FILE OF INVENTION: WITH THE PROGNOSIS OF PROSTATE CELL PROLIFERATIVE DISORDERS

; FILE REFERENCE: 47675-158

; CURRENT APPLICATION NUMBER: US/60740,736

; CURRENT FILING DATE: 2005-11-30

; NUMBER OF SEQ ID NOS: 978

; SEQ ID NO 19

; LENGTH: 7563

; TYPE: DNA

; ORGANISM: Homo Sapiens

; US-60-740-736-19

Query Match 6.9%; Score 149; DB 8; Length 7563;

Best Local Similarity 49.6%; Pred. No. 6.5e-33;

Matches 414; Conservative 0; Mismatches 415; Indels 6; Gaps 1;

Qy	439	TCTACTCATCGTGTGGTGGGCTCTTCGGAACTTCTGTCTCATGTATGTGATTG 498
Db	5331	TCTACGGCGGTGATCTGCCCGGTGGTCTGGCGGGCACTTCGGCGTGTGACGTGTGC 5390
Qy	499	TCAGATACCAAGAATGAAGACTGCGCACACATCTACATTTTCAACCTTCTCTGGCAG 558
Db	5391	TGGGGGCGCCCGCATGAAGACCGTCACCAACCTGTTTCATCTCAACCTGGCCATCGCG 5450
Qy	559	ATGCGTTAGCCACCAAGTACCTGCGCTTCAGAGTGTGAATTAACCTAATGGGAATGGC 618
Db	5451	ACGAGCTTTCACGCTGTGTGCTGCCCATCAACATCGCCGACTTCTGTCTGGCGAGTGGC 5510
Qy	619	CATTGGGAACCATCTTTGCAAGATAGTATCTCCATAGATTACTATAACATGTTTCAACA 678
Db	5511	CTTTGGGGAGCTATGTGCAAGCTCATCGTGGCTATCGACGATGACCAACCTTCTTCCA 5570
Qy	679	GCATATTCAACCTCTGACACCATGAGTGTGTGATCGATACATTTGCAGTCTGCCACCCCTGTCA 738
Db	5571	GCCTCTACTTCTACCGTCTATGAGCGCGACCGCTACTGTGTGTGGCCACTGCGG 5630
Qy	739	AGGC-----CTTAGATTTCGTACTCCCGGAAATGCCAAATTAATCAATGTCTGCAACT 792
Db	5631	AGTCGCGCGGGTGGCGCGGCACCTACAGCGCGCGCGCGGTGAGCCTGGCGCGTGT 5690
Qy	793	GGATCCTCTTTCAGCCATTTGTCTCTGTGTAATGTTTCATGTGCTACACAAATACAGCG 852
Db	5691	GGGGGATCGTCACACTCGTCGTGCTGCGCCTTCGCGAGTCTTTCGCGCGCTAGACGACGAGC 5750
Qy	853	AAGGTTTCCATAGTTTACACTAACAATTTCTCTCATCCAACTGTGTACTGGGAAACCTTCG 912
Db	5751	AGGGCGGGCGGCGAGTGGGTAGTCTTTTCGCGACCGGAGCGCTTCTGGTGGCGCGGA 5810
Qy	913	TGAAGATCTGTGTTTTCATCTTCGCTTCAATATATGCCAGTGTCTATCAATACCGTGTGCT 972
Db	5811	GCCGCTCTTACACGCTGTGTGGGCTTCGCCATCCCGTGTCCACCATCTGTGTCTCT 5870
Qy	973	ATGGACTGATGATCTTGGCCTCAAGAGTGTCCGATGCTCTCTGGCTCCAAAGAAAGG 1032
Db	5871	ATACCACCTGTGTGCGGGCTGCATGCGCTGGACGACCGCACCGCAAGGCCCTTGG 5930
Qy	1033	ACAGGAATCTTCGAAGGATCACAGGATGGTCTGTGTGTGTGTGTGTGTGTGTGTGTGT 1092

Db	5931	AGCGCGCAAGAAAGCGGTTGACCTTCTGTGTGTGGCAATCCTTGGCGGTGTGCTCTCTCT 5990
Qy	1093	GCTGGACTCCCATTTCACATTTACGTTCATATTAAAGCTTTGGTTACAAATCCAGAAACTA 1152
Db	5991	GCTGGACGCGCTACCACTGAGCACCGTGTGGCGTCAACCGAGCTTCCCGCAGACGC 6050
Qy	1153	CGTTCCAGACTGTTTCTTGGCACTTCTGCAATTGCTCTAGTGTACACAAACAGCTGCCCTCA 1212
Db	6051	CGCTGGTTCATCGCTATCTCTCTACTTATCATCACAGCCTGAGCTACGCCAAACAGCTGCCCTCA 6110
Qy	1213	ACCAGTCTTTTATGATTTCTGATGAAATCTTCAACAGATGCTTCCAGAGAGTT 1267
Db	6111	ACCCCTTCTCTAGCGCTTCTTGAGCGCCAGCTTCCGAGGAACCTCCGCCAGCT 6165

RESULT 12

US-60-751-455-1982

; Sequence 1982, Application US/60751455

; GENERAL INFORMATION:

; APPLICANT: Radich, Gerald P.

; APPLICANT: Dai, Hongyue

; APPLICANT: Mao, Mao

; APPLICANT: Schelter, Janell

; APPLICANT: Linsley, Peter S.

; TITLE OF INVENTION: GENES ASSOCIATED WITH PROGRESSION AND RESPONSE IN

; FILE OF INVENTION: CHRONIC MYELOID LEUKEMIA AND USES THEREOF

; FILE REFERENCE: 9301-253-888

; CURRENT APPLICATION NUMBER: US/60751,455

; CURRENT FILING DATE: 2005-12-15

; NUMBER OF SEQ ID NOS: 7936

; SOFTWARE: FastSeq 4.01

; SEQ ID NO 1982

; LENGTH: 1257

; TYPE: DNA

; ORGANISM: Homo sapiens

; US-60-751-455-1982

Query Match 6.6%; Score 143; DB 8; Length 1257;

Best Local Similarity 48.6%; Pred. No. 1.4e-31;

Matches 423; Conservative 0; Mismatches 445; Indels 3; Gaps 1;

Qy	415	TCAGGGCATCAGCATATGATGATCTCTACTCCATCGTGTGGTGGTGGTCTTTCGGAA 474
Db	125	TCAGTGGCGTCTCTGATCCCTGCTGTCTCTGCTGTGGTGGTGGTGGTGGTGGTGGTGGT 184
Qy	475	ACTTCTGGTCACTATGATGATCTCTAGATACACCAAGATGAAGACTGCCACCAACATCT 534
Db	185	ACTCGTGGTCACTATGATGATCTCTGCGGACACGGCCAGCCCTTCACTACCAACGCT 244
Qy	535	ACATTTTCAACCTTGTCTCTGGCAGATGCTTTAGCCACCAAGTACCTGCTGCTTCCAGATG 594
Db	245	ACATCTCAACCTGCGCTGCGCGACGAGCTTTTATGCTGGGCTGCGCTTCTCTGCGCG 304
Qy	595	TGAATTAACCTTAATGGGAACATGGCCATTTGGAAACATCTTTGCAAGATGATGATCTCCA 654
Db	305	CCAGAACGCGCTTCTCTCTCTGCGCTTCTGCGCTTCTGCGCTTCTGCGCTTCTGCGCG 364
Qy	655	TAGATTACTATAACATGTTTACACAGCATATTTACCTCTGCAATGATGATGATGATGAT 714
Db	365	TGGATGGCATCAACAGTTTACACAGCATATTTCTGCTGCTGCTGCTGCTGCTGCTGCTG 424
Qy	715	ACATTGAGTCTGCGACCCCTGTCAAGGCTTTAGATTTTCCGTACTCTCCGAAATGCCAAA 774
Db	425	ACCTGGCGGTGATACATCCACCGCTGCGCGCTGCGCGCACAGCTCCGGTGGCGCGCA 484
Qy	775	TTATCAATGCTGCAACTGATGATCTCTTTCAGCCATGCTTCTCTGATGATGATGATGAT 834
Db	485	CGGTGAGCGCGCTGTGTGGTGGCTCAGCGGTGGTGGTGGTGGTGGTGGTGGTGGTGGT 544
Qy	835	CTACAAACAAATACAGGCAAGTTCCATAGATTGTACACTAACATTTCTCTCATCAACCT 894
Db	545	CGGAGTGTCCCGCGGATGAGCACTTCCACATGCAAGTGGCGCGAGCGCGCGCGCT 604

QY 895 GGTAATGGGAAACCTCGTGAAGATCTGTGTTTTCATCTTCGCGCTTCATTAATGACCAAGTGC 954
DB 605 GCGAGCGCGCTTCATCATCTACACGCCGCACTGGGCTTCTTCGGCGCGCTGCTGTCA 664
QY 955 TCATCATATTACCGTGTGATGGAATGATGATCTGTCGCGCTCAAGAGATGTCGCGATGCTCT 1014
DB 665 TCTGCGCTCTGCTACCTGCTCATCGTGTGAAGGTGGCTCAGCTGGCGCGCGGGTGTGG 724
QY 1015 CTGGCTCCAAAGAAAGGACAGG--AACTTCGAAGGATCACAGGATGGTGTGCTGGTGG 1071
DB 725 CACCCCTGTGCCAGCGCGCGCGCTCCGAACGCAAGGGTCACGCGCATGGTGGTGGCGG 784
QY 1072 TGGTGGCTGTGTTTCATGCTGTGCTGACCTCCATTCACATTTACGTCATCATTAAGCCT 1131
DB 785 TGGTGGCGCTTCTGCTGCTCTGTGATGCGCTTCTACGTGCTCAACATCGTCAACGTGG 844
QY 1132 TGGTTCAATCCAGAAACTACGTTCCAGACTGTTTTCGGAAGTCTTGGCATTTGCTCTAG 1191
DB 845 TGTGCCCACTGCCGAGGAGCGCTGCTTCTTTGGGCTCTACTTCTCGTGGTGGCGCTGC 904
QY 1192 GTTACAAACAGCTGCTCAACCCAGTCTTTTATGATTTCTGGATGAAACTTCAAAC 1251
DB 905 CCTATGCCAACAGCTGTGCCAACCCCATCTTTATGGCTTCTCTCTCTACCGCTTCAAGC 964
QY 1252 GATGCTTCAGAGAGTTCTGTATCCCAACCTC 1282
DB 965 AGGGCTTCGCGAGGTCCTGCTGGGCGCCTC 995

RESULT 13

US-60-742-219-749
; Sequence 749, Application US/60742219
; GENERAL INFORMATION:
; APPLICANT: Belouchi, Abdelmajid
; APPLICANT: Raelson, John Verner
; APPLICANT: Bradley, Walter Edward
; APPLICANT: Paquin, Bruno
; APPLICANT: Nguyen-Huu, Quynh
; APPLICANT: Croteau, Pascal
; APPLICANT: Allard, Rene
; APPLICANT: Little, Randall David
; APPLICANT: Keith, Tim
; APPLICANT: Cousineau, Johanne
; APPLICANT: Berdewegh, Paul Van
; APPLICANT: Segal, Jonathan
; TITLE OF INVENTION: Gene Map of the Human Genes Associated with Psoriasis
; FILE REFERENCE: 306522-2000
; CURRENT APPLICATION NUMBER: US/60/742,219
; CURRENT FILING DATE: 2005-12-05
; NUMBER OF SEQ ID NOS: 7303
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 749
; LENGTH: 2123
; TYPE: DNA
; ORGANISM: Homo sapiens
US-60-742-219-749

Query Match 6.5%; Score 141.4; DB 8; Length 2123;
Best Local Similarity 48.5%; Pred. No. 5.3e-31;
Matches 422; Conservative 0; Mismatches 446; Indels 3; Gaps 1;

QY 415 TCAGCGCCATCAGATGCGCCCTCTACTCCATCGTGTGCGTGGGGCTCTTCGGAA 474
DB 650 TCAGTGGCGCTTCGATCCCCCTGGTCTACCTGGTGTGCGTGGGGCTCTGGGTA 709
QY 475 ACTTCTCGTGTATGTGATTTGTGATACACCAAGATGAAGACTGCGCACCAACATCT 534
DB 710 ACTCGTGTGATCTATGTGTTGTTCTCGGCGACACGCGCAGCCCTTCAGTCACCAACGCT 769
QY 535 ACATTTTCAACCTTGTCTGGAGATGCGCTTACGACACAGTACCCCTGCGCTTCCAGAGTG 594
DB 770 ACATCTCAACCTGGCGCTGGCGAGAGCTCTTCATGCTGGGGCTGCGCTTCTGGCGG 829

QY 595 TGAATTAACCTAATGGGAACATGGCCATTTGGAAACCATCTCTTTGCAAGATAGTGAATCTCCA 654
DB 830 CCCAGAACGCCCTGTCTACTACTGGCCTTGGGCTCCCTCATGTGCGCCTGGTCATGGCG 889
QY 655 TAGATTACTATTAACATGTTTCAACAGCATATTACCCCTCTGCAACCATGATGTTGATCGAT 714
DB 890 TGGATGGCATCAACCAAGTTTCAACAGCATATTCTGCTGACTGTCTATGAGCGTGGACCGCT 949
QY 715 ACATTCGAGTCTGCCACCCTGTCAAGGCTTAGATTTCGTTACTCCCCGAATGCCAAAA 774
DB 950 ACTTGGCGGTGTATATCCACCCGCTGGCGCGTGGCGCACAGCTCCGCGTGGCCCGCA 1009
QY 775 TTATCAATGCTGTCAACTGGAATCTCTCTTTCAGCATTTGGTCTTCTCTGTAATGTTTCATGG 834
DB 1010 CGGTGAGCGCGCTGTGTGGGTGGCTCAGCCGTGGTGTGTCGCCGTGGTGGTCTTCT 1069
QY 835 CTACAAACAAATPACAGGCAAGGTTCCATAGATTGTACACTAACAATTTCTCTCATCCAACT 894
DB 1070 CGGAGTGGCCCGCGCATGAGCACTGTGCACATGCAGTGGGCCGAGCGCGCGCGCT 1129
QY 895 GGTACTGGGAAAAACCTCGTGAAGATCTGTGTTTTCATCTTCGCCCTTCATTATGCCAGTGC 954
DB 1130 GCGAGCGCGCTTTCATCTACACGCGCGCACTGGGCTTCTTCGCGCGCTGCTGGTCA 1189
QY 955 TCATCATTTACCGTGTGCTATGACTGATGATCTTGGCGCTCAAGAGTGTCCGATGCTCT 1014
DB 1190 TCTGCTCTGCTACCTGCTCATCTGTTGGTGAAGTGGCTCAGCTGGCGCGGGTGTGG 1249
QY 1015 CTGGCTC--CAAGAAAGGACAGGAATTTTCGAAGGATCACAGGATGGTGTGGTGG 1071
DB 1250 CACCCCTCGTGCCAGCGCGCGCTCCGAACGCGAGGGTCAAGCGCATGGTGGTGGCG 1309
QY 1072 TGGTGGCTGTGTTTCATGCTGCTGCTGCACTCCCATTTCAATTTACGTCATCAATAAGCCT 1131
DB 1310 TGGTGGCGCTCTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1369
QY 1132 TGGTTACAAATCCAGAAACTACGTTCCAGACTGTTTCTTGGGCTTCTGCTGCTGCTGCT 1191
DB 1370 TGTGCCACTGCCGAGGAGCGCTGCTTCTTGGGCTCTACTTCTGTTGGTGGGCTGCT 1429
QY 1192 GTTACAAACAGCTGCGCTCAACCCAGTCTCTTTTATGCAATTTCTGGATGAAAACTTCAAC 1251
DB 1430 CCTATGCCAACAGCTGTGCCAACCCCATCTTTATGGCTTCTCTCTCTACCGCTTCAAGC 1489
QY 1252 GATGCTTCAGAGAGTTCTGTATCCCAACCTC 1282
DB 1490 AGGGCTTCGCGAGGTCCTGCTGGCGCGCTC 1520

RESULT 14

US-60-740-736-102/c
; Sequence 102, Application US/60740736
; GENERAL INFORMATION:
; APPLICANT: Cottrell, Susan
; APPLICANT: Model, Fabian
; APPLICANT: Haefliger, Carolina
; APPLICANT: Weiser, Gunter
; APPLICANT: Distler, Juergen
; APPLICANT: Sledziewski, Andrew Z.
; APPLICANT: Song, Xiaoling
; APPLICANT: Skillman, Tom
; APPLICANT: Thomas, Jeff
; TITLE OF INVENTION: METHODS AND NUCLEIC ACIDS FOR THE ANALYSIS OF GENE EXPRESSION AS
; FILE REFERENCE: 47675-158
; CURRENT APPLICATION NUMBER: US/60/740,736
; CURRENT FILING DATE: 2005-11-30
; NUMBER OF SEQ ID NOS: 978
; SEQ ID NO 102
; LENGTH: 7563
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:

; OTHER INFORMATION: chemically treated genomic DNA (Homo sapiens)
US-60-740-736-102

Query Match 4.7%; Score 100.6; DB 8; Length 7563;
Best Local Similarity 46.0%; Pred. No. 9.1e-19;
Matches 383; Conservative 0; Mismatches 444; Indels 6; Gaps 1;

Qy 421 CCATCAGATCATGGCCCTCTACTCCATCTGTGCGTGGGGCTCTTCGGAACCTTCC 480
Db |||||
Qy 2251 CGATAACTATACCAATTTATCTACGCGATAATCTACGCCGTAATCTTAACGAACACTCCG 2192
Db |||||
Qy 481 TGGTCATGTATGTGATGTGATGATACCAAGATGAAGACTGCCACCAACATCTACATTT 540
Db |||||
Qy 2191 CCGTACTACTAGTATTAAGTACGACGCGCCGCGATATAAACCGTACCAACTTATCATCC 2132
Db |||||
Qy 541 TCAACCTTGTCTGGAGATGCTTACGACGCGTACGACGCGCTTCCAGAGTGTGAATT 600
Db |||||
Qy 2131 TCAACCTTAAACATCGCGGAGAACTCTTACGCGTAATTAATCTACCACTCAACATCGCGACT 2072
Db |||||
Qy 601 ACCTAATGGGAACATGGCCATTTGGAAACCATCTCTTTCGAAGATAGTATCTCCATAGATT 660
Db |||||
Qy 2071 TCCTACTACGACAAATAACCCCTTCAAAAACTCATATACAACTCATCGTAACATTCGACC 2012
Db |||||
Qy 661 ACTATACATGTTTACCAGCATATTTACACCTCTGCACCATGAGTGTGATCGATACATTTG 720
Db |||||
Qy 2011 AATACAACACTTCTCCAACTCTACTTCTCACCGTCTAAGCGCGCGCTACCTAA 1952
Db |||||
Qy 721 CAGTCTGCCACCTGTCAAGC-----CTTAGATTTCCGTAATTCCTCCGGAATTCGCAAAA 774
Db |||||
Qy 1951 TAATATTAAACCACTACGAAATCGCGCGAATAACCGACCGCACCTACAACGCGCGCGCG 1892
Db |||||
Qy 775 TTATCAATGTCTGAACATGGATCTCTCTTCAGCCATGTGTCTCTCTGTAATGTTCATGG 834
Db |||||
Qy 1891 CGATAAACCTTAAACGCTATTAATAATCGTCACTCGTGTACTACCTTTCGCAATCTTCG 1832
Db |||||
Qy 835 CTACAACAAATACAGGAGTTTCCATAGATTGTACACTAACTTCTCTCATCCAACTT 894
Db |||||
Qy 1831 CCGACTTAACGACGAACAAACCGCGCCATAGTACTTAATCTTCCGCAACCCGAA 1772
Db |||||
Qy 895 GGTACTGGGAAACCTCGTGAAGATCTGTGTTTTTCATCTTGGCCTTCATTTATGCGAGTGC 954
Db |||||
Qy 1771 CTTTCTAATAACGCGGAAACCGCTCTACAGCTCGTACTAAACTTCGCGCATCCCGTAT 1712
Db |||||
Qy 955 TCATCATTTACGCTGTATGGACTGTATCTTGGCGCTCAAGAGTGTCCGATGCTCT 1014
Db |||||
Qy 1711 CCACCATCTATATCTCTATACCACTTATACCGACTACATACCATAGCACTAAACA 1652
Db |||||
Qy 1015 CTGGCTCCAAAGAAAGACAGGAATCTTCGAAGGATCACCAGGATGGTGTGGTGG 1074
Db |||||
Qy 1651 ACCACGCAAAACCTTAACGCGGCAAAACGAATAACCTTCTTAATAACATTC 1592
Db |||||
Qy 1075 TGGCTGTGTTTCATGCTGTGGAATCCCATTTACATTTACGTCATCATTTAAAGCCTTGG 1134
Db |||||
Qy 1591 TAAAGATATACCTCTCTACTAAAGCGCTTACCACCTAAACACCGTAATACGCTACCA 1532
Db |||||
Qy 1135 TTACAATCCGAAACTAGTTTCAGACTGTTTCTTGGCACTTCTGCAATGCTCTAGTT 1194
Db |||||
Qy 1531 CCGACCTCCGCAAAACGCGCTAATCATTCGCTATCTCTACTTTCATCACCAACCTAACT 1472
Db |||||
Qy 1195 ACACAACAGTGTCTCAACCGAGTCTTTTATGATTTCTGGATGAAACCTTC 1247
Db |||||
Qy 1471 ACGCAACAACTACTCTAACCCCTTCTCTAGCGCTTCTTAACGCGCACTTC 1419
Db |||||

RESULT 15

US-60-740-736-230/c
; Sequence 230, Application US/60740736
; GENERAL INFORMATION:
; APPLICANT: Cottrell, Susan
; APPLICANT: Model, Fabian
; APPLICANT: Haefliger, Carolina
; APPLICANT: Weiss, Gunter
; APPLICANT: Distler, Juergen

; APPLICANT: Sledziwski, Andrew Z.
; APPLICANT: Song, Xiaoling
; APPLICANT: Skillman, Tom
; APPLICANT: Thomas, Jeff
; TITLE OF INVENTION: METHODS AND NUCLEIC ACIDS FOR THE ANALYSIS OF GENE EXPRESSION AS
; FILE REFERENCE: 47675-158
; CURRENT APPLICATION NUMBER: US/60/740,736
; CURRENT FILING DATE: 2005-11-30
; NUMBER OF SEQ ID NOS: 978
; SEQ ID NO 230
; LENGTH: 7563
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: chemically treated genomic DNA (Homo sapiens)
US-60-740-736-230

Query Match 4.3%; Score 94; DB 8; Length 7563;
Best Local Similarity 44.7%; Pred. No. 7.7e-17;
Matches 413; Conservative 0; Mismatches 505; Indels 6; Gaps 1;

Qy 421 CCATCAGATCATGGCCCTCTACTCCATCTGTGCGTGGGGCTCTTCGGAACCTTCC 480
Db |||||
Qy 2251 CAATAACTATACCAATTTATCTACACAATAATCTACACCATAAATCTTAACAAACAACTCCA 2192
Db |||||
Qy 481 TGGTCATGTATGTGATGTGATGATACCAAGATGAAGACTGCCACCAACATCTACATTT 540
Db |||||
Qy 2191 CCATCTATACATATTACTACAAACGCCGCGATATAAACCATCACCACTTATCATCC 2132
Db |||||
Qy 541 TCAACCTTGTCTGGAGATGCTTACGCCACCAAGTACCCTTCCGCTTCCAGAGTGTGAATT 600
Db |||||
Qy 2131 TCAACCTTAAACATCATCCACCAACAACTCTTACACTAATTAATCTACCATCAACCACT 2072
Db |||||
Qy 601 ACCTAATGGGAACATGGCCATTTGGAAACCATCTTTCGAAGATAGTATCTCCATAGATT 660
Db |||||
Qy 2071 TCCTACTACAAATAAACCCCTTCAAAAACTCATATAACAACTCATTAACATTAACACC 2012
Db |||||
Qy 661 ACTATAACATGTTTACCAGCATATTCACCTCTGCACCATGAGTGTGATCGATACATTTG 720
Db |||||
Qy 2011 AATACAACCTTCTCCAACTCTACTTCTTCCATCATTAACACCACTACCTACCTAA 1952
Db |||||
Qy 721 CAGTCTGCCACCTGTCAAGC-----CTTAGATTTCCGTAATTCCTCCGGAATTCGCAAAA 774
Db |||||
Qy 1951 TAATATTAAACCACTACAAATTCACCAAAATACCAACCAACACCTACTACCAACACACACA 1892
Db |||||
Qy 775 TTATCAATGTCTGAACATGGATCTCTCTTTCAGCCATGTGTCTCTCTGTAATGTTCATGG 834
Db |||||
Qy 1891 CAATAAACCTTAAACCATATAAAAAAATCATCACTCATCTACTACCTTCAAACTCTTCA 1832
Db |||||
Qy 835 CTACAACAAATACAGGCAAGGTTCCATAGATTGTACACTAACTTCTCTCATCCAACTT 894
Db |||||
Qy 1831 CCAACCTTAAACAAACAAACAAACCAACCACTACTAATCTTTCACCAACCCGAA 1772
Db |||||
Qy 895 GGTACTGGGAAACCTCGTGAAGATCTGTGTTTTTCATCTTGGCCTTCATTTATGCGAGTGC 954
Db |||||
Qy 1771 CTTTCTAATAACACAAACCAACCTCTACACACTTAAACTTCAACCATCCCAAT 1712
Db |||||
Qy 955 TCATCATTTACGCTGTATGGACTGTATGATCTTGGCGCTCAAGAGTGTCCGATGCTCT 1014
Db |||||
Qy 1711 CCACCATCTATATCTCTATACCACTTATACCACTTATACCACTACATACCACTAAACA 1652
Db |||||
Qy 1015 CTGGCTCCAAAGAAAGGACAGGAATCTTCGAAGGATCACCAGGATGGTGTGGTGG 1074
Db |||||
Qy 1651 ACCACCAAAACCTTAAACCAACCAACCAACCAAACTTCTTAATAACATTC 1592
Db |||||
Qy 1075 TGGCTGTGTTTCATGCTGTGGAATCCCATTTACATTTACGTCATCATTTAAAGCCTTGG 1134
Db |||||
Qy 1591 TAAAGATATACCTCTCTACTAAAGCGCTTACCACCTAAACACCGTAATACGCTACCA 1532
Db |||||
Qy 1135 TTACAATCCGAAACTAGTTTCAGACTGTTTCTTGGCACTTCTGCAATGCTCTAGTT 1194
Db |||||
Qy 1531 CCGACCTCCGCAAAACGCGCTAATCATTCGCTATCTCTACTTTCATCACCAACCTAACT 1472
Db |||||

Qy	1195	ACACAAACAGTCGCTCAACCCAGTCCTTTATGCAATTTCTGGATGAAAACCTTCAACGAT	1254
Db	1471	ACACCAACAACTACCTCAACCCCTTCTCTACACCTTCTTAAACACCAACTTCCACAAA	1412
Qy	1255	GCTTCAGAGAGTTCTGTATCCCAACCTTTCCAAACATTGAGCAACAAAACCTCCACTCGAA	1314
Db	1411	ACCTCCACCAACTAATAACTTACCACACAACACCTTAACCTCCCCCAACATCCAACTCCAC	1352
Qy	1315	TTGGTCAGAACACTAGAGACCACC	1338
Db	1351	AACTACCCACCACTCCTAACCAAC	1328

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Job time : 116.968 secs

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OM nucleic - nucleic search, using sw model
Run on: January 8, 2006, 17:55:42 ; Search time 367.698 Seconds
(without alignments)
10451.753 Million cell updates/sec

Title: US-09-883-839-1-A386
Perfect score: 2162
Sequence: 1 ggaattccggctagcgag.....gtgggttgcctcggaattc 2162

Scoring table: IDENTITY NUC
Gapop 10.0 , Gapext 1.0

Searched: 1303057 seqs, 888780828 residues

Total number of hits satisfying chosen parameters: 2606114

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

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3: /cgn2_6/ptodata/1/ina/6A COMB.seq.*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Query Match	Score	Length	DB ID	Description
1	2158.4	99.8	2162	3	US-09-351-198-1 Sequence 1, Appli
2	2158.4	99.8	2162	3	US-09-113-426-1 Sequence 1, Appli
3	2158.4	99.8	2162	3	US-09-016-434-1379 Sequence 1379, Ap
4	2148.8	99.4	2162	3	US-09-355-709C-7 Sequence 7, Appli
5	2136.4	98.8	2160	3	US-08-188-275A-1 Sequence 1, Appli
6	1551.4	71.8	1610	3	US-08-889-108-7 Sequence 7, Appli
7	1551.4	71.8	1610	6	PCT-US94-10358-7 Sequence 7, Appli
8	1198.2	55.4	1203	3	US-09-826-509-544 Sequence 544, App
9	1177.4	54.5	2229	3	US-09-214-904-1 Sequence 1, Appli
10	1163.6	53.8	1182	3	US-09-826-509-546 Sequence 546, App
11	1147	53.1	1981	3	US-08-387-707-15 Sequence 15, Appli
12	1147	53.1	1981	3	US-08-405-271A-15 Sequence 15, Appli
13	1130.2	52.3	2135	3	US-08-430-286A-1 Sequence 1, Appli
14	1099	50.8	1618	3	US-08-889-108-1 Sequence 1, Appli
15	1099	50.8	1618	3	US-08-889-108-3 Sequence 3, Appli
16	1099	50.8	1618	3	US-08-120-601B-1 Sequence 1, Appli
17	1099	50.8	1618	3	US-08-120-601B-3 Sequence 3, Appli
18	1099	50.8	1618	6	PCT-US94-10358-1 Sequence 1, Appli
19	1099	50.8	1618	6	PCT-US94-10358-3 Sequence 3, Appli
20	1071	49.5	1610	3	US-09-761-962A-16 Sequence 16, Appli
21	916.4	42.4	1542	3	US-09-761-962A-4 Sequence 4, Appli
22	915	42.3	1365	3	US-09-761-962A-11 Sequence 11, Appli
23	915	42.3	1423	3	US-09-761-962A-1 Sequence 1, Appli
24	913.6	42.3	1334	3	US-09-761-962A-3 Sequence 3, Appli

25	913.6	42.3	1729	3	US-09-761-962A-9 Sequence 9, Appli
26	913.6	42.3	2045	3	US-09-761-962A-10 Sequence 10, Appli
27	893.6	41.3	1346	3	US-09-761-962A-12 Sequence 12, Appli
28	803.6	37.2	1238	3	US-09-761-962A-2 Sequence 2, Appli
29	709.8	32.8	1257	3	US-09-761-962A-5 Sequence 5, Appli
30	695.2	32.2	830	3	US-08-387-707-13 Sequence 13, Appli
31	695.2	32.2	830	3	US-08-405-271A-13 Sequence 13, Appli
32	454.2	21.0	1275	3	US-09-341-446B-7 Sequence 7, Appli
33	452.6	20.9	1275	3	US-09-341-446B-5 Sequence 5, Appli
34	441.8	20.4	1773	3	US-09-016-434-1405 Sequence 1405, Ap
35	441.6	20.4	1829	2	US-08-411-859-1 Sequence 1, Appli
36	441.6	20.4	1829	3	US-08-387-707-7 Sequence 7, Appli
37	441.6	20.4	1829	3	US-08-405-271A-7 Sequence 7, Appli
38	441.6	20.4	2218	3	US-09-214-904-3 Sequence 3, Appli
39	441.6	20.4	2219	3	US-08-432-174A-1 Sequence 1, Appli
40	441.6	20.4	2272	3	US-08-147-592A-3 Sequence 3, Appli
41	441.6	20.4	2272	3	US-08-292-694A-3 Sequence 3, Appli
42	440.8	20.4	998	3	US-08-432-174A-3 Sequence 3, Appli
43	440.2	20.4	1119	3	US-09-826-509-538 Sequence 538, App
44	437.8	20.2	441	3	US-09-530-880-5 Sequence 5, Appli
45	433.2	20.0	1142	3	US-08-765-743-1 Sequence 1, Appli

ALIGNMENTS

RESULT 1

US-09-351-198-1
; Sequence 1, Application US/09351198
; Patent No. 6335168
; GENERAL INFORMATION:
; APPLICANT: Kreek, Mary J
; APPLICANT: Laforge, Karl S
; APPLICANT: Yu, Lei
; APPLICANT: Tisfield, Jay A.
; TITLE OF INVENTION: ALLELES OF THE HUMAN MU OPIOID RECEPTOR, DIAGNOSTIC
; TITLE OF INVENTION: METHODS OF USING SAID ALLELES, AND METHODS OF TREATMENT
; TITLE OF INVENTION: BASED THEREON
; FILE REFERENCE: 600-1-226N
; CURRENT APPLICATION NUMBER: US/09/351,198
; CURRENT FILING DATE: 1999-07-09
; EARLIER APPLICATION NUMBER: 60/092,402
; EARLIER FILING DATE: 1998-07-10
; NUMBER OF SEQ ID NOS: 7
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1
; LENGTH: 2162
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (2063)
; OTHER INFORMATION: No. 6335168feature for this position in GeneBank.
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (2091)
; OTHER INFORMATION: No. 6335168feature for this position in GeneBank.
US-09-351-198-1

Query Match	99.8%;	Score 2158.4;	DB 3;	Length 2162;
Best Local Similarity	100.0%;	Pred. No. 0;		
Matches 2161;	Conservative 0;	Mismatches 1;	Indels 0;	Gaps 0;
Qy	1	GGAATTCGGCTATAGCAGAGGAGATGTGATGTCTAGCTCGTCCCTCCGCTCGA	60	
Db	1	GGAATTCGGCTATAGCAGAGGAGATGTGATGTCTAGCTCGTCCCTCCGCTCGA	60	
Qy	61	CGCTCCCTCTGTCTCAGCCAGGACTGTTTCTAAGAAACAGCAGGAGCTGTGGCAGC	120	
Db	61	CGCTCCCTCTGTCTCAGCCAGGACTGTTTCTAAGAAACAGCAGGAGCTGTGGCAGC	120	
Qy	121	GGCGAAAGGAGCGGCTGAGCGCTTGGAAACCGAAAGTCTCGGTGCTCTGGCTACT	180	

121	GGCGAAAGGAAGCGGCTGAGCGCTTGGAA	CGCGAAAGTCTCGGTGCTCTCTGGCTACCT	180
QY	CGCACAGCGGTGCCGCGCGCCCTCAGTACCATGGACAGCAGCGCTGCCCGCCACGAACG	240	
	CGCACAGCGGTGCCGCGCGCCCTCAGTACCATGGACAGCAGCGCTGCCCGCCACGAACG	240	
	CGCACAGCGGTGCCGCGCGCCCTCAGTACCATGGACAGCAGCGCTGCCCGCCACGAACG	240	
QY	CCAGCAATTGCACTGATGCTTGGCGGTACTCAAGTTGCTCCCGAGCACCCAGCGCCCGGTT	300	
	CCAGCAATTGCACTGATGCTTGGCGGTACTCAAGTTGCTCCCGAGCACCCAGCGCCCGGTT	300	
QY	CTTGGGTCAACTGTTGTCCTACTTAGATGGCAACCTGTCCGACCCCATGCGGTCCGGAACGCA	360	
Db	CTTGGGTCAACTGTTGTCCTACTTAGATGGCAACCTGTCCGACCCCATGCGGTCCGGAACGCA	360	
QY	CCAACTGGGCGGAGAGACAGCCTATGTCCTCCGACCGGCACTCCCATGATCAACG	420	
Db	CCAACTGGGCGGAGAGACAGCCTATGTCCTCCGACCGGCACTCCCATGATCAACG	420	
QY	CCATCAGCATCATGCGCCCTCTACTCCATCGTGTGCGTGGGCTCTTCGGAAACTTCC	480	
Db	CCATCAGCATCATGCGCCCTCTACTCCATCGTGTGCGTGGGCTCTTCGGAAACTTCC	480	
QY	TGGTCATGTATGTGATTTGATGATACACCAAGATGAAGATGCGCCACCAATCTACATTT	540	
Db	TGGTCATGTATGTGATTTGATGATACACCAAGATGAAGATGCGCCACCAATCTACATTT	540	
QY	TCAACCTTGCTCTGGCAGATGCTTAGCCACCACTTTCGACCGGTGAGT	600	
Db	TCAACCTTGCTCTGGCAGATGCTTAGCCACCACTTTCGACCGGTGAGT	600	
QY	ACCTAATGGGAACATGGCCATTTGGAAACCATCTTTGCAAGATAGTGATCTCCATAGATT	660	
Db	ACCTAATGGGAACATGGCCATTTGGAAACCATCTTTGCAAGATAGTGATCTCCATAGATT	660	
QY	ACTATACATGTTCCACGACATATTCACCTCTGCA	720	
Db	ACTATACATGTTCCACGACATATTCACCTCTGCA	720	
QY	CAGTCTGCCACCTGTCAAGCCCTTAGATTTCCGCTCTCCCGAAATGCCAAATTA	780	
Db	CAGTCTGCCACCTGTCAAGCCCTTAGATTTCCGCTCTCCCGAAATGCCAAATTA	780	
QY	ATGTCGTCAACTGGATCCTCTCTTCAGCCATTTGCTCTGTAATGTTATGGCTACAA	840	
Db	ATGTCGTCAACTGGATCCTCTCTTCAGCCATTTGCTCTGTAATGTTATGGCTACAA	840	
QY	CAAAATACAGGCAAGTTTCCATAGATGTACACTAA	900	
Db	CAAAATACAGGCAAGTTTCCATAGATGTACACTAA	900	
QY	GGGAAACCTCGTCAAGATCTGTTTTTCACTTCGCTTCAATATGCCAGTGTCTATCA	960	
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QY	TTACCGTGTGCTATGGACTGATGATCTTGGCCCTCAAGAGTGTCCGCTATGCTCTCTGGCT	1020	
Db	TTACCGTGTGCTATGGACTGATGATCTTGGCCCTCAAGAGTGTCCGCTATGCTCTCTGGCT	1020	
QY	CCAAAGAAAGGA	1080	
Db	CCAAAGAAAGGA	1080	
QY	TGTTTCATGCTGTGGACTCCCATTCACATTTACGTCATCAATTAAGCCCTTGTTACAA	1140	
Db	TGTTTCATGCTGTGGACTCCCATTCACATTTACGTCATCAATTAAGCCCTTGTTACAA	1140	
QY	TCCCAGAAACTACGTTCCAGACTGTTTCTTGGA	1200	
Db	TCCCAGAAACTACGTTCCAGACTGTTTCTTGGA	1200	
QY	ACAGTGCCTCAA	1260	
Db	ACAGTGCCTCAA	1260	

RESULT 2
US-09-113-426-1
; Sequence 1, Application US/09113426
; Patent No. 6337207
; GENERAL INFORMATION:
; APPLICANT: Kreek, Mary J
; APPLICANT: Laforge, Karl S

Db 1741 GCAATATATTATGACCTCAACAAAGGAAGAACCATCTTTTGTAAAGTTACCGGTAGTAACA 1800
QY 1801 CATAAAGTAAATGCTACCTCTGATCAAGACCTTGAATGGAAGGTCAGAGTCTTTTGTAG 1860
Db 1801 CATAAAGTAAATGCTACCTCTGATCAAGACCTTGAATGGAAGGTCAGAGTCTTTTGTAG 1860
QY 1861 TGTTTTTCGAAGGAATGAATCCATTAATCTTATTTTGTAGACTTTTAACTTCAACTTAAAT 1920
Db 1861 TGTTTTTCGAAGGAATGAATCCATTAATCTTATTTTGTAGACTTTTAACTTCAACTTAAAT 1920
QY 1921 TAGCATCTGGCTAAGGCATATTTTCACTCCATTTTCTGGTTTGTATTTTAAATAA 1980
Db 1921 TAGCATCTGGCTAAGGCATATTTTCACTCCATTTTCTGGTTTGTATTTTAAATAA 1980
QY 1981 AATAACATCTCTTTTCACTAGCTCCATAATGCAAGGAAGATTAAGCATGAAGGTAA 2040
Db 1981 AATAACATCTCTTTTCACTAGCTCCATAATGCAAGGAAGATTAAGCATGAAGGTAA 2040
QY 2041 TCTGAAACACAGTCATGTGTCACTGTAGAAAGTTGATTTCTCATGCACTNCAAAATCTT 2100
Db 2041 TCTGAAACACAGTCATGTGTCACTGTAGAAAGTTGATTTCTCATGCACTNCAAAATCTT 2100
QY 2101 CCAAGAGTCATCATGGGGATTTTTCATTTCTTAGGCTTTTCTAGTGTGTTTCTTCTGGAAT 2160
Db 2101 CCAAGAGTCATCATGGGGATTTTTCATTTCTTAGGCTTTTCTAGTGTGTTTCTTCTGGAAT 2160
QY 2161 TC 2162
Db 2161 TC 2162

RESULT 3

US-09-016-434-1379
; Sequence 1379, Application US/09016434
; Patent No. 6500938
; GENERAL INFORMATION:
; APPLICANT: Janice Au-Young
; APPLICANT: Jeffrey J. Seilhamer
; TITLE OF INVENTION: COMPOSITION FOR THE DETECTION OF SIGNALING
; TITLE OF INVENTION: PATHWAY GENE EXPRESSION
; NUMBER OF SEQUENCES: 1490
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: INCYTE PHARMACEUTICALS, INC.
; STREET: 3174 PORTER DRIVE
; CITY: PALO ALTO
; STATE: CALIFORNIA
; COUNTRY: USA
; ZIP: 94304
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Word Perfect 6.1 for Windows/MS-DOS 6.2
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/016,434
; FILING DATE: HERewith
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: Zeller, Karen J.
; REGISTRATION NUMBER: 37,071
; REFERENCE/DOCKET NUMBER: PA-0002 US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (650) 855-0555
; TELEFAX: (650) 845-4166
; INFORMATION FOR SEQ ID NO: 1379:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2162 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single

; TOPOLOGY: linear
; IMMEDIATE SOURCE:
; LIBRARY: GENBANK
; CLONE: g452072
US-09-016-434-1379
Query Match 99.8%; Score 2158.4; DB 3; Length 2162;
Best Local Similarity 100.0%; Pred. NO. 0;
Matches 2161; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 1 GGAATTCGGCTATAGGCAGAGAGAAATGTACAGATGCTCAGCTCGTCCCTCCGCTGA 60
Db 1 GGAATTCGGCTATAGGCAGAGAGAAATGTACAGATGCTCAGCTCGTCCCTCCGCTGA 60
QY 61 CGCTCTCTCTCTCAGCCAGGACTGTGTTCTGTAAGAAAACAGCAGAGAGCTGTGCGAGC 120
Db 61 CGCTCTCTCTCTCAGCCAGGACTGTGTTCTGTAAGAAAACAGCAGAGAGCTGTGCGAGC 120
QY 121 GGCAGAAAGGAAGCGGCTGAGGCGCTTGGAACCCGAAAAGTCTCGGTGCTCTGGCTACCT 180
Db 121 GGCAGAAAGGAAGCGGCTGAGGCGCTTGGAACCCGAAAAGTCTCGGTGCTCTGGCTACCT 180
QY 181 CGCAGAGCGGTCCCGCCCGCGCTCAGTACCATGAGCAGCAGCGTGCCTCCACCAACG 240
Db 181 CGCAGAGCGGTCCCGCCCGCGCTCAGTACCATGAGCAGCAGCGTGCCTCCACCAACG 240
QY 241 CCAGCAATTGCACTGATGCTTTGGGCTACTCAAGTTGCTCCCGCAGCAGCGCCCGGTT 300
Db 241 CCAGCAATTGCACTGATGCTTTGGGCTACTCAAGTTGCTCCCGCAGCAGCGCCCGGTT 300
QY 301 CCTGGGTCAAATTTGTCCCACTTAGATGGCAACCTGTCCGACCCATGCGTCCGAAACCGCA 360
Db 301 CCTGGGTCAAATTTGTCCCACTTAGATGGCAACCTGTCCGACCCATGCGTCCGAAACCGCA 360
QY 361 CCAACTGGGCGGGAGAGACAGCCTATGCCCCTCGACCGGAGTCCCTCCATGATCAGCG 420
Db 361 CCAACTGGGCGGGAGAGACAGCCTATGCCCCTCGACCGGAGTCCCTCCATGATCAGCG 420
QY 421 CCATCAGCATATGCGCCCTCTACTCCATCGTGTGGTGTGGGCTCTTCGGAACCTTC 480
Db 421 CCATCAGCATATGCGCCCTCTACTCCATCGTGTGGTGTGGGCTCTTCGGAACCTTC 480
QY 481 TGGTCATGTATGTGTGTGATGATACCAAGATGAAGACTGCCACCAACATCTACATTT 540
Db 481 TGGTCATGTATGTGTGTGATGATACCAAGATGAAGACTGCCACCAACATCTACATTT 540
QY 541 TCAACCTTGTCTGCGCAGATGCTTAGCCACCATGATACCTCCCTTCCAGAGTGTGAATT 600
Db 541 TCAACCTTGTCTGCGCAGATGCTTAGCCACCATGATACCTCCCTTCCAGAGTGTGAATT 600
QY 601 ACCTAATGGGAACATGGCCATTTGGAACCATCTTTGCAAGATAGTATCCATAGATT 660
Db 601 ACCTAATGGGAACATGGCCATTTGGAACCATCTTTGCAAGATAGTATCCATAGATT 660
QY 661 ACTATAACATGTTTCAACAGCATATTCACCCCTCTGACCATGATGTTGATGATACATTG 720
Db 661 ACTATAACATGTTTCAACAGCATATTCACCCCTCTGACCATGATGTTGATGATACATTG 720
QY 721 CAGTGTGCCACCTGTCAAGGCTTAGATTTCGGTACTCCCGAAATGCGAAATTTATCA 780
Db 721 CAGTGTGCCACCTGTCAAGGCTTAGATTTCGGTACTCCCGAAATGCGAAATTTATCA 780
QY 781 ATGTCTGCAACTGGATCCCTCTTCCAGCCATTTGGTCTTCTTAAGTTTCATGGCTACAA 840
Db 781 ATGTCTGCAACTGGATCCCTCTTCCAGCCATTTGGTCTTCTTAAGTTTCATGGCTACAA 840
QY 841 CAAAATACAGGCAAGGTTCCATAGATTGTACACTAACTTCTCTCATCCAACTGGTACT 900
Db 841 CAAAATACAGGCAAGGTTCCATAGATTGTACACTAACTTCTCTCATCCAACTGGTACT 900
QY 901 GGGAAAAACCTCGTGAAGATCTGTGTTTTCATCTTGGCTTTCATTTATGCGCAGTGTCTATCA 960
Db 901 GGGAAAAACCTCGTGAAGATCTGTGTTTTCATCTTGGCTTTCATTTATGCGCAGTGTCTATCA 960

QY 961 TTACCGTGTGCTATGGACTGATGATCTTTGGCCCTCAAGAGTGTCCGATGCTCTCTGGCT 1020
Db 961 TTACCGTGTGCTATGGACTGATGATCTTTGGCCCTCAAGAGTGTCCGATGCTCTCTGGCT 1020
QY 1021 CCAAGAAAAGGACAGGAATCTTCGAAGGATCACAGGATGGTGTCTGGTGGTGGCTG 1080
Db 1021 CCAAGAAAAGGACAGGAATCTTCGAAGGATCACAGGATGGTGTCTGGTGGTGGCTG 1080
QY 1081 TGTTTCATGCTGTCTGGACTCCCATTTACATTTAGCTCATCAATTAAGCCCTTGGTTACAA 1140
Db 1081 TGTTTCATGCTGTCTGGACTCCCATTTACATTTAGCTCATCAATTAAGCCCTTGGTTACAA 1140
QY 1141 TCCAGAAACTACGTTCCAGACTGCTTTCTGGCAGCTCTCTGATGCTCTAGGTTACAA 1200
Db 1141 TCCAGAAACTACGTTCCAGACTGCTTTCTGGCAGCTCTCTGATGCTCTAGGTTACAA 1200
QY 1201 ACAGCTGCTCAACCCAGTCTTTATGATTTCTGGATGAAACTTCAAAAGATGCTTCA 1260
Db 1201 ACAGCTGCTCAACCCAGTCTTTATGATTTCTGGATGAAACTTCAAAAGATGCTTCA 1260
QY 1261 GAGAGTTCTGTATCCCAACTCTTCCAAATGTGAGCAACAACTCCACTGCAATTCGTC 1320
Db 1261 GAGAGTTCTGTATCCCAACTCTTCCAAATGTGAGCAACAACTCCACTGCAATTCGTC 1320
QY 1321 AGAACACTAGACACACCCCTCCAGGCCAATACAGTGGATAGAACTAATCATCAGCTAG 1380
Db 1321 AGAACACTAGACACACCCCTCCAGGCCAATACAGTGGATAGAACTAATCATCAGCTAG 1380
QY 1381 AAAATCTGGAAGCAGAACTGCTCGTTGCCCTAACAGGGTCTCATGCAATTCGACCTT 1440
Db 1381 AAAATCTGGAAGCAGAACTGCTCGTTGCCCTAACAGGGTCTCATGCAATTCGACCTT 1440
QY 1441 CACCAAGCTTAGAAGCCACCATGATGTGGAAGCAGGTTGCTTCAAGAATGTGAGAGG 1500
Db 1441 CACCAAGCTTAGAAGCCACCATGATGTGGAAGCAGGTTGCTTCAAGAATGTGAGAGG 1500
QY 1501 CTCTAATCTCTAGGAAGTGCCTACTTTTGGTTCATCCACCTCTTTCCTCTGGCCA 1560
Db 1501 CTCTAATCTCTAGGAAGTGCCTACTTTTGGTTCATCCACCTCTTTCCTCTGGCCA 1560
QY 1561 CTCTGCTCTGACATTCAGAGGACAGCCAAAGTAAAGTGGAGCATTTTGGAAAGGAAGAA 1620
Db 1561 CTCTGCTCTGACATTCAGAGGACAGCCAAAGTAAAGTGGAGCATTTTGGAAAGGAAGAA 1620
QY 1621 TATACCAACCGAGGAGTCCAGTTTGTGCAAGACACCCAGTGGAAACCAAAACCCATCGT 1680
Db 1621 TATACCAACCGAGGAGTCCAGTTTGTGCAAGACACCCAGTGGAAACCAAAACCCATCGT 1680
QY 1681 GTATGTGAATGAAGTGCATATAAAGGTGACCCCTTCTGTCTGTAAGATTTTATTTCAA 1740
Db 1681 GTATGTGAATGAAGTGCATATAAAGGTGACCCCTTCTGTCTGTAAGATTTTATTTCAA 1740
QY 1741 GCMAATATTTATGACTCAACAAAGAAACCATCTTTTGTAAAGTTCACCGTAGTAACA 1800
Db 1741 GCMAATATTTATGACTCAACAAAGAAACCATCTTTTGTAAAGTTCACCGTAGTAACA 1800
QY 1801 CATAAAGTAAATGCTTACCTCTGATCAAAAGCACCTTTGAATGGAAGTCCGAGTCTTTTAA 1860
Db 1801 CATAAAGTAAATGCTTACCTCTGATCAAAAGCACCTTTGAATGGAAGTCCGAGTCTTTTAA 1860
QY 1861 TGTTTTGCAAGGGAATGAATCCATATTTATTTTATAGACTTTTAACTTCAACTTAAAT 1920
Db 1861 TGTTTTGCAAGGGAATGAATCCATATTTATTTTATAGACTTTTAACTTCAACTTAAAT 1920
QY 1921 TAGCATCTGGCTAAGGCATCATTTTCCCTCATCTTGTGTTTGTATTTGTTTAAAAA 1980
Db 1921 TAGCATCTGGCTAAGGCATCATTTTCCCTCATCTTGTGTTTGTATTTGTTTAAAAA 1980
QY 1981 AATAACATCTCTTTTCTAGTCCATTAATTTGCAAGGGAAGAGATTAGCATGAAAGGTAA 2040
Db 1981 AATAACATCTCTTTTCTAGTCCATTAATTTGCAAGGGAAGAGATTAGCATGAAAGGTAA 2040

RESULT 4

US-09-355-709C-7
; Sequence 7, Application US/09355709C
; Patent No. 6538120
; GENERAL INFORMATION:
; APPLICANT: Max-Delbruck-Centrum fur Molekulare Medizin
; TITLE OF INVENTION: Genomic Sequences of Human -opioid Receptor Gene ...
; FILE REFERENCE: 101195-15
; CURRENT APPLICATION NUMBER: US/09/355,709C
; CURRENT FILING DATE: 1999-09-27
; PRIOR APPLICATION NUMBER: DE 197 03 925.1
; PRIOR FILING DATE: 1997-02-03
; NUMBER OF SEQ ID NOS: 7
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 7
; LENGTH: 2162
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Human Genomic
; OTHER INFORMATION: Clone
; OTHER INFORMATION: cdna encoding human opiate receptor
; NAME/KEY: unsure
; LOCATION: (2063)
; OTHER INFORMATION: n = unknown
; NAME/KEY: unsure
; LOCATION: (2091)
; OTHER INFORMATION: n = unknown
; US-09-355-709C-7

Query Match 99.4%; Score 2148.8; DB 3; Length 2162;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 2152; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 9 GGCTATAGGCAGAGGAGAAATGTCAGATGCTCAGCTCGGTCCCTCCCGCTGACGCTCCTC 68
Db 9 GGCTATAGGCAGAGGAGAAATGTCAGATGCTCAGCTCGGTCCCTCCCGCTGACGCTCCTC 68
QY 69 TCTGTCTCAGCCAGGACTGGTTTCTGTAAGAAACAGCAGGAGCTGTGGCAGCGCGAAAG 128
Db 69 TCTGTCTCAGCCAGGACTGGTTTCTGTAAGAAACAGCAGGAGCTGTGGCAGCGCGAAAG 128
QY 129 GAAGCGGCTGAGGGGCTTGGAAACCCGAAAAGTCTCGGTGCTCTGGCTTACCTCGCACAGC 188
Db 129 GAAGCGGCTGAGGGGCTTGGAAACCCGAAAAGTCTCGGTGCTCTGGCTTACCTCGCACAGC 188
QY 189 GGTGCCCGCCCGCGCTCAGTACCATGGAAGAGAGCGTGGCCCAAGAACGCCAGCAAT 248
Db 189 GGTGCCCGCCCGCGCTCAGTACCATGGAAGAGAGCGTGGCCCAAGAACGCCAGCAAT 248
QY 249 TGCACTGATGCTTGGCGTACTCAAGTTGCTCCCGACCCAGCCCGGTTCTTGGGTC 308
Db 249 TGCACTGATGCTTGGCGTACTCAAGTTGCTCCCGACCCAGCCCGGTTCTTGGGTC 308
QY 309 AACTTGTCCCACTTAGATGGCAACTGTCCGACCCATCGCGTCCGAAACCGCACCAACCTG 368
Db 309 AACTTGTCCCACTTAGATGGCAACTGTCCGACCCATCGCGTCCGAAACCGCACCAACCTG 368
QY 369 GCGCGGAGAGACAGCCTATGCCCTCCGACCGGAGTCCCTCCATGATACGGCCATCAG 428
Db 369 GCGCGGAGAGACAGCCTATGCCCTCCGACCGGAGTCCCTCCATGATACGGCCATCAG 428

Db 369 GCGGGAGAGACAGCGCTGTGCGCTCCGACGGCAGTCCCTCATGATCACGCCATCAAG 428
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Db 429 ATCATGGCCCTTACTCCATCGTGTGCGTGGGCTCTTCGGAAACTTCTTGTCATG 488
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Db 489 TATGTGATGTGATGATACACCAAGATGAAGACTGCCACCAACATCTACATTTTCAACCTT 548
QY 549 GCTCTGGCAGATGCTTTAGCCACAGTACCTGCTCCAGAGTGTGAATTAACCTTAATG 608
Db 549 GCTCTGGCAGATGCTTTAGCCACAGTACCTGCTCCAGAGTGTGAATTAACCTTAATG 608
QY 609 GGAACATGGCCATTTGGAAACATCTTGGAAAGATAGTGTATCTCCATAGATTAATAAC 668
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QY 669 ATGTTTACCAGCATATTTTCAACCTCTGCACCATGAGTGTGATCGATACATTCAGTCTGC 728
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Db 849 AGGCAAGGTTCCATAGATTTGACACATACTCTCATCCCAACCTGTGGGAAAC 908
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Db 909 CTGCTGAAGATCTGTGTTTTCATCTTCGCTTCAATATGCCAGTGTCTATCATACCGTG 968
QY 969 TGTATGGACTGATGATCTTGGCCCTCAAGAGTGTCCGATGCTCTGCGCTCCAAGAA 1028
Db 969 TGTATGGACTGATGATCTTGGCCCTCAAGAGTGTCCGATGCTCTGCGCTCCAAGAA 1028
QY 1029 AAGGACAGGAATCTTCCGAAGGATCACAGAGTGGTGTGCTGTGCTGTGTTTCAATC 1088
Db 1029 AAGGACAGGAATCTTCCGAAGGATCACAGAGTGGTGTGCTGTGCTGTGTTTCAATC 1088
QY 1089 GTCTGTGGACTCCCAATTCACATTTACGTATCATTTAAAGCCCTTGGTTACAAATCCAGAA 1148
Db 1089 GTCTGTGGACTCCCAATTCACATTTACGTATCATTTAAAGCCCTTGGTTACAAATCCAGAA 1148
QY 1149 ACTAGCTTCCAGACTGTTTCTTGGCACTTCTGCAATTTGCTCTAGGTTTACAAACAGCTGC 1208
Db 1149 ACTAGCTTCCAGACTGTTTCTTGGCACTTCTGCAATTTGCTCTAGGTTTACAAACAGCTGC 1208
QY 1209 CTCACCCAGCTCTTATGATTTCTGGATGAAACTTCAACGATGCTTTCAGAGGTTTC 1268
Db 1209 CTCACCCAGCTCTTATGATTTCTGGATGAAACTTCAACGATGCTTTCAGAGGTTTC 1268
QY 1269 TGTATCCCAACCTTCCCAACATTTGAGCAACAACTCCACTCGAATTCGTCAAGACAT 1328
Db 1269 TGTATCCCAACCTTCCCAACATTTGAGCAACAACTCCACTCGAATTCGTCAAGACAT 1328
QY 1329 AGAGACACCCCTCCAGGCAATACAGTGGATAGAACTAATCATCAGCTAGAAATCTG 1388
Db 1329 AGAGACACCCCTCCAGGCAATACAGTGGATAGAACTAATCATCAGCTAGAAATCTG 1388
QY 1389 GAAGCAGAACTGCTCCGTTGCCCTAACAGGGTCTCATGCTATTCGACCTTCCCAAGC 1448
Db 1389 GAAGCAGAACTGCTCCGTTGCCCTAACAGGGTCTCATGCTATTCGACCTTCCCAAGC 1448
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Db 1449 TTAGAAGCCACCATGATGTGGAAGCAGGTTGCTTCAAGAAATGTGTAGGAGGCTCTAAT 1508

QY 1509 CTCTAGGAAAGTCCCTACTTTTAGTTCATCCAACTCTTCTCTCTCTGGCCACTCTGCTC 1568
Db 1509 CTCTAGGAAAGTCCCTACTTTTAGTTCATCCAACTCTTCTCTCTCTGGCCACTCTGCTC 1568
QY 1569 TGCACATTTAGAGGGACAGCAAAAGTAAAGTGGAGCATTTTGGAGGAAAGGAATATACCA 1628
Db 1569 TGCACATTTAGAGGGACAGCAAAAGTAAAGTGGAGCATTTTGGAGGAAAGGAATATACCA 1628
QY 1629 ACCGAGGATCCAGTTTGTGCAAGACACCCAGTGGAAACCAAAACCCATCTGCTGATGTA 1688
Db 1629 ACCGAGGATCCAGTTTGTGCAAGACACCCAGTGGAAACCAAAACCCATCTGCTGATGTA 1688
QY 1689 ATTGAAGTCATCATATAAAGGTGACCTTCTGCTGTAGATTTTATTTTCAAGCAATAT 1748
Db 1689 ATTGAAGTCATCATATAAAGGTGACCTTCTGCTGTAGATTTTATTTTCAAGCAATAT 1748
QY 1749 TTATGACCTCAACAAAGAAACCATCTTTTGTAAAGTTCACCGTAGTAACACATAAAGT 1808
Db 1749 TTATGACCTCAACAAAGAAACCATCTTTTGTAAAGTTCACCGTAGTAACACATAAAGT 1808
QY 1809 AAATGCTACTCTGATCAAGACACCTTGAATGGAAGGTCGAGTCTTTTAGTGTGTTTG 1868
Db 1809 AAATGCTACTCTGATCAAGACACCTTGAATGGAAGGTCGAGTCTTTTAGTGTGTTTG 1868
QY 1869 CAAGGGAATGAATCCATTTTATTTAGACTTTTAACTTCAACTTAAATTTAGCATCT 1928
Db 1869 CAAGGGAATGAATCCATTTTATTTAGACTTTTAACTTCAACTTAAATTTAGCATCT 1928
QY 1929 GGCTAAGGCATCATTTTCACTCCATTTCTTGGTTTGTGTTTGTAAATAAATAACAT 1988
Db 1929 GGCTAAGGCATCATTTTCACTCCATTTCTTGGTTTGTGTTTGTAAATAAATAACAT 1988
QY 1989 CTCCTTTCATCTAGCTCCATAATTCAGGGAAGAGATTAGCATGAAAGTAACTCTGAAC 2048
Db 1989 CTCCTTTCATCTAGCTCCATAATTCAGGGAAGAGATTAGCATGAAAGTAACTCTGAAC 2048
QY 2049 ACAGTCATGTGTCTGCTGAGAAAGTGTGATTCATGCTACCTNCAATACTTCCAAAGAG 2108
Db 2049 ACAGTCATGTGTCTGCTGAGAAAGTGTGATTCATGCTACCTNCAATACTTCCAAAGAG 2108
QY 2109 TCATCATGGGGATTTTTCATTTTAGGCTTTTTCAGTGTGTTTCTCTGGAATTC 2162
Db 2109 TCATCATGGGGATTTTTCATTTTAGGCTTTTTCAGTGTGTTTCTCTGGAATTC 2162

RESULT 5

US-08-188-275A-1

; Sequence 1, Application US/08188275A

; Patent No. 6258556

; GENERAL INFORMATION:

; APPLICANT: Uhl, George R.

; APPLICANT: Wang, Jia-Bel

; APPLICANT: Johnson, Peter S.

; APPLICANT: Persico, Antonio

; TITLE OF INVENTION: cDNA and Genomic Clones Encoding Human

; TITLE OF INVENTION: Mu Opiate Receptor and the Purified Gene Product

; NUMBER OF SEQUENCES: 12

; CORRESPONDENCE ADDRESS:

; ADDRESSES: Birch, Stewart, Kolasch & Birch

; STREET: P.O. Box 747

; CITY: Falls Church

; STATE: Virginia

; COUNTRY: USA

; ZIP: 22040-3487

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; COMPUTER: IBM PC compatible

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: PatentIn Release #1.0, Version #1.25

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/08/188,275A

; FILING DATE: 28-JAN-1994

CLASSIFICATION: 530
ATTORNEY/AGENT INFORMATION:
NAME: Murphy Jr., Gerald M.
REGISTRATION NUMBER: 28,977
REFERENCE/DOCKET NUMBER: 1173-449P
TELECOMMUNICATION INFORMATION:
TELEPHONE: 703-241-1300
TELEFAX: 703-241-2848
TELEX: 248345
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 2160 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
MOLECULE TYPE: cDNA
FEATURE:
NAME/KEY: -
LOCATION: 1..2160 /label= cDNA
OTHER INFORMATION: /note= "cDNA encoding human mu opiate receptor"
US-08-188-275A-1

Query Match 98.8%; Score 2136.4; DB 3; Length 2160;

Best Local Similarity 99.9%; Pred. No. 0;

Matches 2159; Conservative 0; Mismatches 1; Indels 2; Gaps 2;

Qy	1	GGAAATCCGGCTATAGGCAGAGGAGAAATGTCAGATGCTCAGCTCGCTCCGCTCCGCTGA	60
Db	1	GGAAATCCGGCTATAGGCAGAGGAGAAATGTCAGATGCTCAGCTCGCTCCGCTCCGCTGA	60
Qy	61	CGCTCCTCTGCTCAGCCAGGACTGGTTTCTGTAAGAACACAGCAGAGCTGGGCAGC	120
Db	61	CGCTCCTCTGCTCAGCCAGGACTGGTTTCTGTAAGAACACAGCAGAGCTGGGCAGC	120
Qy	121	GGCGAAAGGAGCGGCTGAGCGCTTGGAAACCCGAAAGTCTCGGTGCTCCTGGCTACCT	180
Db	121	GGCGAAAGGAGCGGCTGAGCGCTTGGAAACCCGAAAGTCTCGGTGCTCCTGGCTACCT	180
Qy	181	CGCAGCGGTGCCCGCGCGCGCTGAGTACCATGGAACAGCAGCGCTGCCCGCCACGAAAG	240
Db	181	CGCAGCGGTGCCCGCGCGCGCTGAGTACCATGGAACAGCAGCGCTGCCCGCCACGAAAG	240
Qy	241	CCAGCAATGCACTGATGCCCTTGGGCTACTCAAGTTGCTCCCGACCCAGCCGCGGTT	300
Db	241	CCAGCAATGCACTGATGCCCTTGGGCTACTCAAGTTGCTCCCGACCCAGCCGCGGTT	300
Qy	301	CCTGGTCAACTGTGCCACTTAGATGGCAACCTGTCCGACCCCATGGGTCCGAAACCGCA	360
Db	301	CCTGGTCAACTGTGCCACTTAGATGGCAACCTGTCCGACCCCATGGGTCCGAAACCGCA	360
Qy	361	CCAACTGGGGGAGAGACAGCCCTATGCCCTCCGACCGGCGAGTCCCTCCATGATCAGG	420
Db	361	CCAACTGGGGGAGAGACAGCCCTATGCCCTCCGACCGGCGAGTCCCTCCATGATCAGG	420
Qy	421	CCATCAGATCATGGCCCTCTACTCCATCGTGTGGGTGGGGTCTTCGGAACCTTCC	480
Db	421	CCATCAGATCATGGCCCTCTACTCCATCGTGTGGGTGGGGTCTTCGGAACCTTCC	480
Qy	481	TGGTCACTGATGATGTCAGATACACCAAGATGAAGACTGCCACCAACATCTACATTT	540
Db	481	TGGTCACTGATGATGTCAGATACACCAAGATGAAGACTGCCACCAACATCTACATTT	540
Qy	541	TCAACTTGGTCTGGCAGATGCTTAGCCACAGTACCTTCCCTTCCAGAGTGAATT	600
Db	541	TCAACTTGGTCTGGCAGATGCTTAGCCACAGTACCTTCCCTTCCAGAGTGAATT	600
Qy	601	ACCTAAATGGGAACATGGGCATTTGGAAACCATCTTTGCAAGATAGTATCTCCATAGAT	660
Db	601	ACCTAAATGGGAACATGGGCATTTGGAAACCATCTTTGCAAGATAGTATCTCCATAGAT	660
Qy	661	ACTATAACATGTCACCGATATTTACCCCTCTGCACCATGAGTGTGATCGATACATTTG	720
Db			

Db	661	ACTATAACATGTCACCGATATTTACCCCTCTGCACCATGAGTGTGATCGATACATTTG	720
Qy	721	CAGTCTGCCACCTGTCAAGGCCCTTAGATTTCCGTACTCCCGAAATGCCAAATTTATCA	780
Db	721	CAGTCTGCCACCTGTCAAGGCCCTTAGATTTCCGTACTCCCGAAATGCCAAATTTATCA	780
Qy	781	ATGCTGCAACTGGATCCTCTCTCAGCCATTGGTCTTCTGTAATGTTTATGGCTACAA	840
Db	781	ATGCTGCAACTGGATCCTCTCTCAGCCATTGGTCTTCTGTAATGTTTATGGCTACAA	840
Qy	841	CAAAATACAGGCAAGGTTCCATAGATTGTACATTAACATTTCTCATCCAACTGGTACT	900
Db	841	CAAAATACAGGCAAGGTTCCATAGATTGTACATTAACATTTCTCATCCAACTGGTACT	900
Qy	901	GGGAAACCTCGTGAAGATCTGTGTTTTCATCTTCGCTTTCATTTATGCCAGTGTCTATCA	960
Db	901	GGGAAACCTCGTGAAGATCTGTGTTTTCATCTTCGCTTTCATTTATGCCAGTGTCTATCA	960
Qy	961	TTACCGTGTGCTATGGAATGATCTTGGCCCTCAAGAGTGTCCGATGCTCTCTGGCT	1020
Db	961	TTACCGTGTGCTATGGAATGATCTTGGCCCTCAAGAGTGTCCGATGCTCTCTGGCT	1020
Qy	1021	CCAAAGAAAGGACAGGAATCTTGAAGGATCACAGGATGGTGTCTGGTGGTGGCTG	1080
Db	1021	CCAAAGAAAGGACAGGAATCTTGAAGGATCACAGGATGGTGTCTGGTGGTGGCTG	1080
Qy	1081	TGTTTCATCGTCTGCTGACCTCCCATTCACATTTACGTCATCATTTAAAGCCCTTGGTTACAA	1140
Db	1081	TGTTTCATCGTCTGCTGACCTCCCATTCACATTTACGTCATCATTTAAAGCCCTTGGTTACAA	1140
Qy	1141	TCCAGAAACTAGCTTCCAGACTGTTTCTTGGCACTTCTGCAATGCTCTAGGTTACACAA	1200
Db	1141	TCCAGAAACTAGCTTCCAGACTGTTTCTTGGCACTTCTGCAATGCTCTAGGTTACACAA	1200
Qy	1201	ACAGTGTCTGATCCCAACCTCTTCCAACTTGAAGCAAACTCCCACTCGAATGCTGTC	1260
Db	1201	ACAGTGTCTGATCCCAACCTCTTCCAACTTGAAGCAAACTCCCACTCGAATGCTGTC	1260
Qy	1261	GAGAGTCTGATCCCAACCTCTTCCAACTTGAAGCAAACTCCCACTCGAATGCTGTC	1320
Db	1261	GAGAGTCTGATCCCAACCTCTTCCAACTTGAAGCAAACTCCCACTCGAATGCTGTC	1320
Qy	1321	AGAACACTAGAGACCAACCTTCCACGCGCAATACAGTGGATAGAACTTAATCATCAGTAG	1380
Db	1321	AGAACACTAGAGACCAACCTTCCACGCGCAATACAGTGGATAGAACTTAATCATCAGTAG	1380
Qy	1381	AAAATCTGGAAGCAGAACTGCTCCGTTGCCCTAACAGGGTCTCATGCCATTCGACCTT	1440
Db	1381	AAAATCTGGAAGCAGAACTGCTCCGTTGCCCTAACAGGGTCTCATGCCATTCGACCTT	1440
Qy	1441	CACCAAGCTTAGAAGCCACCATGTTGGAAGCAGGTGCTTCAAGAACTGTAGGAGG	1500
Db	1441	CACCAAGCTTAGAAGCCACCATGTTGGAAGCAGGTGCTTCAAGAACTGTAGGAGG	1500
Qy	1501	CTCTAAATCTTAGGAAAGTCCCTTCTTTAGGTCTATCCAACTCTTTCTCTCTGGCCA	1560
Db	1501	CTCTAAATCTTAGGAAAGTCCCTTCTTTAGGTCTATCCAACTCTTTCTCTCTGGCCA	1560
Qy	1561	CTCTGTCTGCACATTAAGAGGACAGCAAAAGTAAGTGGAGCATTTGGAAAGGAAGAA	1620
Db	1561	CTCTGTCTGCACATTAAGAGGACAGCAAAAGTAAGTGGAGCATTTGGAAAGGAAGAA	1620
Qy	1621	TATACCAACCGAGGAGTCCAGTTTGTGGAAGCAGCCAGTGGAAACCAAAACCCATCGT	1680
Db	1621	TATACCAACCGAGGAGTCCAGTTTGTGGAAGCAGCCAGTGGAAACCAAAACCCATCGT	1680
Qy	1681	GTATGTGAATTTGAAGTCTATATAAGGTGACCCCTTCTGTCTGTAAGATTTTATTTCAA	1740
Db	1681	GTATGTGAATTTGAAGTCTATATAAGGTGACCCCTTCTGTCTGTAAGATTTTATTTCAA	1740
Qy	1741	GCAATATTTATGACCTCAACAAAGAAAGAACCATCTTTTGTAGTTTCCAGTAGTAA	1800
Db	1741	GCAATATTTATGACCTCAACAAAGAAAGAACCATCTTTTGTAGTTTCCAGTAGTAA	1800

QY 1801 CATAAGTAAATGCTACCTCTCATCAAGCACCTTGAATGGAAGTCCGAGTCTTTTAG 1860
Db 1801 CATAAAGTAAATGCTACCTCTCATCAAGCACCTTGAATGGAAGTCCGAGTCTTTTAG 1860
QY 1861 TGTTTTGCAAGGAATGAATCCATTATTTCTATTTTAGACTTTTAACTTCAACTTAAAT 1920
Db 1861 TGTTTTGCAAGGAATGAATCCATTATTTCTATTTTAGACTTTTAACTTCAACTTAAAT 1920
QY 1921 TAGCATCTGGCTAAGGCATCATTTTCACTCCATTTCTTGGTTTGTATTTTAAATAA 1980
Db 1921 TAGCATCTGGCTAAGGCATCATTTTCACTCCATTTCTTGGTTTGTATTTTAAATAA 1980
QY 1981 AATAACATCTCTTTCACTAGCTCCATAATTCGAAGGAAGATTTAGCATGAAGGTAA 2040
Db 1981 AATAACATCTCTTTCACTAGCTCCATAATTCGAAGGAAGATTTAGCATGAAGGTAA 2040
QY 2041 TCTGAAACACAGTCATGTGTCTCANCTGTAGAAAGTTTGAATTCATGCACTNCAATACIT 2100
Db 2041 TCTGAAACACAGTCATGTGTCTCA-CTGTAGAAAGTTTGAATTCATGCACT-CAATACIT 2098
QY 2101 CCAAGAGTCATCATGGGGATTTTTCATTTCTTAGGCTTTAGTGGTTTCTCTGGAAT 2160
Db 2099 CCAAGAGTCATCATGGGGATTTTTCATTTCTTAGGCTTTAGTGGTTTCTCTGGAAT 2158
QY 2161 TC 2162
Db 2159 TC 2160

RESULT 6

US-08-889-108-7
; Sequence 7, Application US/08889108
; Patent No. 6103492
; GENERAL INFORMATION:
; APPLICANT: Yu, Lei
; TITLE OF INVENTION: Mu Opioid Receptors: Compositions and Methods
; NUMBER OF SEQUENCES: 17
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Arnold, White & Durkee
; STREET: P. O. Box 4433
; CITY: Houston
; STATE: TX
; COUNTRY: USA
; ZIP: 77210-4433
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/889,108
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/305,518
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Wilson, Mark B.
; REGISTRATION NUMBER: 37,259
; REFERENCE/DOCKET NUMBER: INDA005\WIM
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 512-418-3000
; TELEFAX: 512-474-7577
; INFORMATION FOR SEQ ID NO: 7:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1610 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cdna
US-08-889-108-7

Query Match 71.8%; Score 1551.4; DB 3; Length 1610;
Best Local Similarity 99.6%; Pred. No. 0;
Matches 1566; Conservative 0; Mismatches 6; Indels 1; Gaps 1;
QY 9 GGCTATAGGCGAGAGAGAATGTACAGTCTCGGTCCCTCGGCTGAGCGTCTCTC 68
Db 36 GGCTATAGGCGAGAGAGAATGTACAGTCTCGGTCCCTCGGCTGAGCGTCTCTC 95
QY 69 TCTGTCTCAGCCAGGACCTGGTTTCTGTAAAGAAACAGCAGGAGCTGTGGCAGCGGCGAAAG 128
Db 96 TCTGTCTCAGCCAGGACCTGGTTTCTGTAAAGAAACAGCAGGAGCTGTGGCAGCGGCGAAAG 155
QY 129 GAAGCGGCTGAGCGCTTTGGAAACCCGAAAGTCTCGGTCTCTCGCTACCTCGCACAGC 188
Db 156 GAAGCGGCTGAGCGCTTTGGAAACCCGAAAGTCTCGGTCTCTCGCTACCTCGCACAGC 215
QY 189 GGTGCCCGCGCGCTCAGTACCATGACAGCAGGCGTCCGCCACGAAACGCCAGCAAT 248
Db 216 -GTGCCCGCGCGCGCTCAGTACCATGACAGCAGGCGTCCGCCACGAAACGCCAGCAAT 274
QY 249 TGCACGTGATGCCCTTGGCGTACTCAAGTTGCTCCCGACCCAGCCCGGTTCTTGGGTC 308
Db 275 TGCACGTGATGCCCTTGGCGTACTCAAGTTGCTCCCGACCCAGCCCGGTTCTTGGGTC 334
QY 309 AACTTTGTCCCACTTAGATGGCAACCTGTCCGACCCATGCGGTCCGAAACGCCAGCTG 368
Db 335 AACTTTGTCCCACTTAGATGGCAACCTGTCCGACCCATGCGGTCCGAAACGCCAGCTG 394
QY 369 GCGGCGAGAGACAGCCTATGCCCTCGACCGGCGAGTCCCTCATGATCAAGCGCATCAG 428
Db 395 GCGGCGAGAGACAGCCTATGCCCTCGACCGGCGAGTCCCTCATGATCAAGCGCATCAG 454
QY 429 ATCATGGCCCTCTACTCCATCGTGTGGTGGGCTCTTCGAAACCTTCTTGGTCTATG 488
Db 455 ATCATGGCCCTCTACTCCATCGTGTGGTGGGCTCTTCGAAACCTTCTTGGTCTATG 514
QY 489 TATGTGATTTGTGAGATACACCAAGATGAAGACTGCCACCAACATCTACATTTTCAACCTT 548
Db 515 TATGTGATTTGTGAGATACACCAAGATGAAGACTGCCACCAACATCTACATTTTCAACCTT 574
QY 549 GCTCTGGCAGATGCCCTTAGGCAACAGTACCCTGCGCTTCCAGAGTGTGAATTAACCTAATG 608
Db 575 GCTCTGGCAGATGCCCTTAGGCAACAGTACCCTGCGCTTCCAGAGTGTGAATTAACCTAATG 634
QY 609 GGAACATGSCCAATTTGGAAACCATCTTTGCAAGATAGTGTATCTCCATAGATTAATAAC 668
Db 635 GGAACATGSCCAATTTGGAAACCATCTTTGCAAGATAGTGTATCTCCATAGATTAATAAC 694
QY 669 ATGTTTACCAGCATATTCACCTCTGCACCATGAGTGTGTGATCGATACATTCAGTCTGC 728
Db 695 ATGTTTACCAGCATATTCACCTCTGCACCATGAGTGTGTGATCGATACATTCAGTCTGC 754
QY 729 CACCTGTCAAGCGCTTAGATTTCCGTACTCCCGAAATGCCAAATTTATCAATGTCTGC 788
Db 755 CACCTGTCAAGCGCTTAGATTTCCGTACTCCCGAAATGCCAAATTTATCAATGTCTGC 814
QY 789 AACTGGATCCTCTCTTTCAGCCATTTGCTCTTCTGTAATGTTTCATGGCTACACAAATATAC 848
Db 815 AACTGGATCCTCTCTTTCAGCCATTTGCTCTTCTGTAATGTTTCATGGCTACACAAATATAC 874
QY 849 AGGCAAGGTTCCATAGATTGTACACTAATTTCTCTCAATCCAACTGGTACTGGGAAAC 908
Db 875 AGGCAAGGTTCCATAGATTGTACACTAATTTCTCTCAATCCAACTGGTACTGGGAAAC 934
QY 909 CTGCTGAAGATCTGTGTTTTCATCTTTCGCTTCAATATGCCAGTGTCTATCATACCGTG 968
Db 935 CTGCTGAAGATCTGTGTTTTCATCTTTCGCTTCAATATGCCAGTGTCTATCATACCGTG 994
QY 969 TCGTATGGATCTGATGATCTTGGCCCTCAAGAGTGTCCGCATGCTCTCTGGCTCCAAGAA 1028
Db 995 TCGTATGGATCTGATGATCTTGGCCCTCAAGAGTGTCCGCATGCTCTCTGGCTCCAAGAA 1054
QY 1029 AAGGACAGGAATCTTTCGAAGGATCACCAGGATGGTGTGGTGGTGTGTTTCATC 1088

Db 1055 AAGACAGGAACTTTCGAGGATCACAGGATGGTGTGGTGGTGTGTTTCATC 1114
Qy 1089 GTCTGTGGACTCCCAATTCATATTAGTCATCATTAAGCCCTGGTTACAATCCAGAA 1148
Db 1115 GTCTGTGGACTCCCAATTCATATTAGTCATCATTAAGCCCTGGTTACAATCCAGAA 1174
Qy 1149 ACTACGTTCCAGACTGTTCTTGGCACTTCTGCAATGCTCTAGGTTACAAACAGCTGC 1208
Db 1175 ACTACGTTCCAGACTGTTCTTGGCACTTCTGCAATGCTCTAGGTTACAAACAGCTGC 1234
Qy 1209 CTCAACCCAGTCCCTTTATGCAATTTCTGGATGAAACCTTCAACGATGCTTCAGAGTTC 1268
Db 1235 CTCAACCCAGTCCCTTTATGCAATTTCTGGATGAAACCTTCAACGATGCTTCAGAGTTC 1294
Qy 1269 TGTATCCCAACCTCTTCCAACTTGAGCAACAAACCTCCACTCGAATTCGTGAGAACCT 1328
Db 1295 TGTATCCCAACCTCTTCCAACTTGAGCAACAAACCTCCACTCGAATTCGTGAGAACCT 1354
Qy 1329 AGACACACCCCTCAGGCCAATACAGTGGATAGAACTAATCATCAGCTAGAAAATCTG 1388
Db 1355 AGACACACCCCTCAGGCCAATACAGTGGATAGAACTAATCATCAGCTAGAAAATCTG 1414
Qy 1389 GAACGAGAACTGCTCGTGTGCTTAAACAGGGTCTCATGCAATTCGACCTTCAACCAAGC 1448
Db 1415 GAACGAGAACTGCTCGTGTGCTTAAACAGGGTCTCATGCAATTCGACCTTCAACCAAGC 1474
Qy 1449 TTAGAAGCCACCATGTATGTGGAAAGAGGTTGCTTCAAGAAATGTTAGGAGGCTTAATT 1508
Db 1475 TTAGAAGCCACCATGTATGTGGAAAGAGGTTGCTTCAAGAAATGTTAGGAGGCTTAATT 1534
Qy 1509 CTCTAGGAAGTGTCTACTTTTAGGTATCCAACTCTTCTCTCTGCGCACTCTGCTC 1568
Db 1535 CTCTAGGAAGTGTCTACTTTTAGGTATCCAACTCTTCTCTCTGCGCACTCTGCTC 1594
Qy 1569 TdCATTAGAGG 1581
Db 1595 TGCATTAGAGG 1607

RESULT 7
PCT-US94-10358-7
; Sequence 7, Application PC/TUS9410358
; GENERAL INFORMATION:
; APPLICANT:
; TITLE OF INVENTION: MU OPIOID RECEPTORS: COMPOSITIONS AND METHODS
; NUMBER OF SEQUENCES: 17
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Arnold, White & Durkee
; STREET: P. O. Box 4433
; CITY: Houston
; STATE: Texas
; COUNTRY: USA
; ZIP: 77210
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS/ASCII
; SOFTWARE: PATENTIN RELEASE #1.0, VERSION #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US94/10358
; FILING DATE: Concurrently herewith
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/120 601
; FILING DATE: 13 SEPTEMBER 1993
; ATTORNEY/AGENT INFORMATION:
; NAME: WILSON, MARK B.
; REGISTRATION NUMBER: 37,259
; REFERENCE/DOCKET NUMBER: INDA005P--
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (512) 418-3000
; TELEFAX: (713) 789-2679

; TELEX: 79-0924
; INFORMATION FOR SEQ ID NO: 7:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1610 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cdna
; PCT-US94-10358-7

Query Match 71.8%; Score 1551.4; DB 6; Length 1610;
Best Local Similarity 99.6%; Pred. No. 0;
Matches 1566; Conservative 0; Mismatches 6; Indels 1; Gaps 1;

Qy 9 GGCATATAGGCAGAGGAGAATGTGATGCTCGAGTCCGTCCTCCGCTGAGCGTCTCCTC 68
Db 36 GGCATATAGGCAGAGGAGAATGTGATGCTCGAGTCCGTCCTCCGCTGAGCGTCTCCTC 95
Qy 69 TCTGTCTCAGCCAGGACTGGTTTCTGTAGAAAACAGCAGGAGCTGTGGCAGCGCGAAG 128
Db 96 TCTGTCTCAGCCAGGACTGGTTTCTGTAGAAAACAGCAGGAGCTGTGGCAGCGCGAAG 155
Qy 129 GAAGCGGCTGAGCGCTTGGAAACCCGAAAGTCTCGGTGCTCTGCGTACTCTGCACAGC 188
Db 156 GAAGCGGCTGAGCGCTTGGAAACCCGAAAGTCTCGGTGCTCTGCGTACTCTGCACAGC 215
Qy 189 GGTGCCCGCCGCGCTCAGTACATGAGCAGCAGCGCTGCCGCCACGAAACGCCAGCAAT 248
Db 216 -GTGCCCGCCGCGCTCAGTACATGAGCAGCAGCGCTGCCGCCACGAAACGCCAGCAAT 274
Qy 249 TGCACCTGATGCTTGGCGTACTCAAGTTGCTTCCAGCAGCAGCGCCCGGTTCTTGGGTC 308
Db 275 TGCACCTGATGCTTGGCGTACTCAAGTTGCTTCCAGCAGCAGCGCCCGGTTCTTGGGTC 334
Qy 309 AACTTGTCCCACTAGATGSCAACCTGTCCGACCCCATGCGGTCCGAAACCGCAACCACTG 368
Db 335 AACTTGTCCCACTAGATGSCAACCTGTCCGACCCCATGCGGTCCGAAACCGCAACCACTG 394
Qy 369 GCGGGAGAGACAGCCTATGCCCTCCGACCGGAGTCCCTCCATGATCAGCGGCATCAGC 428
Db 395 GCGGGAGAGACAGCCTGTCCTCCGACCGGAGTCCCTCCATGATCAGCGGCATCAGC 454
Qy 429 ATCATGGCCCTCTACTCCTCATCGTGTGGTGGGCTCTTGGAAACTTCTCGGTCTATG 488
Db 455 ATCATGGCCCTCTACTCCTCATCGTGTGGTGGGCTCTTGGAAACTTCTCGGTCTATG 514
Qy 489 TATGTGATGTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 548
Db 515 TATGTGATGTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 574
Qy 549 GCTCTGGCAGATGCTTTAGCCACCCAGTACCTTCCGCTTCCAGAGTGTGAATTAATG 608
Db 575 GCTCTGGCAGATGCTTTAGCCACCCAGTACCTTCCGCTTCCAGAGTGTGAATTAATG 634
Qy 609 GGAACATGGCCATTTGGAACCATCTTTTGAAGATGATGATGATGATGATGATGATGATGAT 668
Db 635 GGAACATGGCCATTTGGAACCATCTTTTGAAGATGATGATGATGATGATGATGATGATGAT 694
Qy 669 ATGTTACACAGCATATTCACCCCTCTGCACCATGATGATGATGATGATGATGATGATGATG 728
Db 695 ATGTTACACAGCATATTCACCCCTCTGCACCATGATGATGATGATGATGATGATGATGATG 754
Qy 729 CACCTGTCAAGGCTTAGATTTCCGCTACTCCCGAAATGCCAAATTTATCAATGTCTGCG 788
Db 755 CACCTGTCAAGGCTTAGATTTCCGCTACTCCCGAAATGCCAAATTTATCAATGTCTGCG 814
Qy 789 AACTGGATCTCTCTTTCAGCCATTTGGTCTCTGTAATGTTTCATGGGTACAAACAAATAC 848
Db 815 AACTGGATCTCTCTTTCAGCCATTTGGTCTCTGTAATGTTTCATGGGTACAAACAAATAC 874
Qy 849 AGGCAAGGTTCCATAGATTTGATACACTAACTCTCTCATCAACCTGTGTCTGCGAAAC 908
Db 875 AGGCAAGGTTCCATAGATTTGATACACTAACTCTCTCATCAACCTGTGTCTGCGAAAC 934

QY 1233 CTGGATGAACAACTTCAACGATGCTTCAGAGAGTTCTGTATCCCAACCTCTTCCAACTT 1292
Db 1021 CTGGATGAACAACTTCAACGATGCTTCAGAGAGTTCTGTATCCCAACCTCTTCCAACTT 1080
QY 1293 GAGCAACAAACTCCCACTCGAATTCGTCAGAAACACTAGAGACCAACCCCTCCACGGCCAAAT 1352
Db 1081 GAGCAACAAACTCCCACTCGAATTCGTCAGAAACACTAGAGACCAACCCCTCCACGGCCAAAT 1140
QY 1353 ACAGTGATAGAACTAATCATACAGCTAGAGTAAGAAAATCTGGAAGCAGAAAATGCTCGTTGCC 1412
Db 1141 ACAGTGATAGAACTAATCATACAGCTAGAGTAAGAAAATCTGGAAGCAGAAAATGCTCGTTGCC 1200
QY 1413 TAA 1415
Db 1201 TAA 1203

RESULT 9
US-09-214-904-1
; Sequence 1, Application US/09214904
; Patent No. 6632977
; GENERAL INFORMATION:
; APPLICANT: TRANSGENIC ANIMAL IN WHICH THE EXPRESSION
; TITLE OF INVENTION: OF OPIATE RECEPTORS IS MODIFIED
; NUMBER OF SEQUENCES: 6
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent in Release #1.0, Version #1.25 (BPO)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/214,904
; FILING DATE:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/FR97/01282
; FILING DATE:
; APPLICATION NUMBER: FR 96.08810
; FILING DATE: 15-JUL-1996
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2229 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 256..1449
US-09-214-904-1

Query Match 54.5%; Score 1177.4; DB 3; Length 2229;
Best Local Similarity 77.8%; Pred. No. 1.1e-300;
Matches 1542; Conservative 0; Mismatches 411; Indels 28; Gaps 9;

QY 9 GGCTATAGCGACGAGAGAAATGTAGATGCTCAGCTCGGTCCCTCCCGCTGACGCTCTC 68
Db 52 GGATACAAGCAGAGAGAAATATCGACGCTCAG-ACGTTCCATTTCTGCTTCCGCTCTTC 110
QY 69 TCTGTCTCAGCCAGCATGTTTCTGTAAAGAAACAGCAGGAG-CTGTGGCAGCGCGAAA 127
Db 111 TCTGGTTCCATAGGGCTTGTCCCTTGTAAAGAAACTGACGAGGCTTAGGGCAGCTGTGAGA 170
QY 128 GGAAGCGCTGAGCGCTTGGAAACCGAAAGTCTCGGTGCTCTCGGTCTACCTCGCACAG 187
Db 171 GGAAGAGCTGGGGCGCTGGAAACCGGAACTCTTGAGTGCTCTCAGTTACAGCTTACC 230
QY 188 CGGTGCCCGCCCGCGCTCAGTACCATGGACAGAGCGCTGCCCGCCACGAAACGCGAGAA 247
Db 231 GAGTCCGACGCAAGCAATTCAGAACCATGGACAGAGCGCGCGCCGCGGAAACATCAGCGA 290
QY 248 TTGCACGTGATCCCTTGGGGTACTCAAGTTGCTCCCGACGACCCAGCCCCGGTTCTCGGT 307

Db 291 CTGCTCTGACCCCTTAGCTCTCTGCAAGTTGGTCCCGAGCA-----CCTGGCTCTGGCT 344
QY 308 CAACTTGTCCCACTTAGATGGCAACCTGTCCGACCCATCGGTCCGAAACCGACCAACCT 367
Db 345 CAACTTGTCCCACTTAGATGGCAACCGATCCGACCCATCGGTCTTAACCGACGGGGCT 404
QY 368 GGGCGGGAGAGACAGAGCTATGCCCCTCCGACCGGACGTCCCTCCATGATACAGGCCATCAC 427
Db 405 TGGCGGGAGCCACAGAGCTGTGCCCTCAGACCGGACGCCCTTCCATGTGTACAGCCATCAC 464
QY 428 GATCATGGCCCTCTACTCCATCGTGTGGGTGGGCTCTTCGGAACCTTCCTGGTTCAT 487
Db 465 CATCATGGCCCTCTATTCTATCGTGTGTAGTGGGCTCTTTGGAAACTTCCTGGTTCAT 524
QY 488 GTATGTGATTTGTGATACACCAAGATGAAGACTGCCACCAACATCTACATTTTCAACCT 547
Db 525 GTATGTGATTTGTAAAGATATACCAAAATGAAGACTGCCACCAACATCTACATTTTCAACCT 584
QY 548 TGCTCTGGCAGATGCTTAGCCACCACTAGTACCCCTGCCCTTCCAGAGTGTGAATTACCTPAAT 607
Db 585 TGCTCTGGCAGATGCTTAGCCACCACTAGTACCGCTGCCCTTTCAGAGTGTAACTACCTGAT 644
QY 608 GGGAAACATGGCCATTTGGAAACCATCTTTGCAAGATAGTGTCTCCATAGATTACTATAA 667
Db 645 GGGAAACGTGGCCCTTTGGAAACATCTCTGCAAGATCGTGTCTCAATAGACTACTACAA 704
QY 668 CATGTTCCAGCAGATATTCACCTCTGCACCATGAGTGTGATCGATACATTTGCAAGCTG 727
Db 705 CATGTTCCAGCAGTATCTTCACTCTGCACCATGAGTGTAGCCGCTACATTTGCCGCTG 764
QY 728 CCACCTGTCAAGGCTTGTAGATTTCCGTACTCTCCCGAAATGCCAAATTTATCAATGTCTG 787
Db 765 CCACCGGTCAAGGCTTGTAGATTTCCGTACTCTCCCGAAATGCCAAATTTGCAATGTCTG 824
QY 788 CAACTGGATCTCTCTTCCAGCCATTTGCTCTGTAATGTTTCAATGCTACAAACAAATA 847
Db 825 CAACTGGATCTCTCTTCCAGCCATTTGCTCTGCGGTAATGTTTATGCGCAACCAAAATA 884
QY 848 CAGGCAAGGTTCCATAGATTGTATACATAATCTCTCATCCCAACCTGGTACTCGGAAA 907
Db 885 CAGGCAAGGTTCCATAGATTGTATACATAATCTCTCATCCCAACCTGGTACTCGGAAA 944
QY 908 CCTCGTGAAGATCTGTGTTTTTCACTTCGCTTCTTATGTCAGTGTCTCATCTATACCGT 967
Db 945 CCTGCTCAAAATCTGTGTTCTTCACTTCGCTTCTCATGTCGCGTCTCATCATCATCTGT 1004
QY 968 GTGCTATGGACTGATGATCTTGGCCCTCAAGAGTGTCCGATGCTCTTGGCTCCAAAGA 1027
Db 1005 GTGTTATGACTGATGATCTTACGACTCAAGAGTGTCCGATGCTGTCCGCTCCAAAGA 1064
QY 1028 AAAGACAGGAATCTTGAAGGATCACAGGATGGTGTGCTGGTGGTGGTGGTGGTGGTTCAT 1087
Db 1065 AAAGACAGGAATCTTGAAGGATCACAGGATGGTGTGCTGGTGGTGGTGGTGGTGGTTCAT 1124
QY 1088 CGTCTGTCGACTCCCAATTCACATTTACATTTACATTTAAAGCCCTTGGTTAAATCCACAGA 1147
Db 1125 TGTCTGTGGAACCCCAATTCACATTTATGTCATCATCAAGACACTGATCAGATTCAGAA 1184
QY 1148 AACTAGCTTCCAGACTGTTTTTCTGGCACTTCTGCAATGCTCTAGGTTTACACAAAGCTG 1207
Db 1185 AACCATTTCCAGACTGTTTTCTGGCACTTCTGCAATGCTTGGTGGTGGTGGTGGTGGTGGT 1244
QY 1208 CCTCAACCCAGTCTTTTATGCAATTTCTGGATGAAACTTCAACGATGCTTCAGAGATT 1267
Db 1245 CCTGAACCCAGTCTTTTATGCAATTTCTGGATGAAACTTCAACGATGCTTCAGAGATT 1304
QY 1268 CTGTATCCCAACCTTCCAACTTGAAGCAACAACTCCCACTCGAATTCGTTCAGAACAC 1327
Db 1305 CTGATCCCAACCTTCTCCCAATTCGAACAGCAAACTCTGCTCGAATTCGTTCAGAACAC 1364
QY 1328 TAGAGACCAACCTTCCACGGCCAATACAGTGGATAGAACTAATCATCAGCTAGAAATCT 1387

Db 1365 TAGGGNAACCCCTCCACGGCTAATACAGTGGATCGAACTAACCAGCTAGAAAAATCT 1424
QY 1389 GGAAGCAGAAAATGCTCCCTGGCTTAACAGGGTCTCATGCGATTCGCCACTTACCAAG 1447
Db 1425 GGAAGCAGAAAATGCTCCATTCCTTAACAGGGTCCACGCGCATCCAGACCCCTCGCTAAA 1484
QY 1448 CTTAGAGCCACCATGATGTCGAGGAGGTTGCTTCAAGAAATGTTAGGAGGCTTAAT 1507
Db 1485 CTTAGAGGCTGCATCTACTTGGAAATCAGGTGCTGTGAGGGTTTGTGGAGGCTCTGGT 1544
QY 1508 TCTCTAGGAAAGTGCCTACTTTTAGGTCAATCAAACTCTTCTCTCTGCGCCACTCTGCT 1567
Db 1545 TTTCTGGAAGAGCATCTGATCTGATCATTTCAAAGTCAATCTCTCTGCGCTATTCA-CG 1603
QY 1568 CTGCACTATTAGAGGAGCAGCCAAAAGTAAGTGGAGCAATTTGGAAGGAAGGAATATACCA 1627
Db 1604 CTACAGCTCAGAGACACTC---AGACTGTGTCAAGCACTCAGAAAGGAAGAGACTGCAGGC 1660
QY 1628 CACCGAGGAGTCCAGTT--TGTGCAAGACACCCAGTGGAAACCAAAACCCATCGTGTATG 1685
Db 1661 CACTACTGAAATCCAGCTCATGTACAGAAACATCCAATGGACCACCAATATCTCTGTGTATG 1720
QY 1686 TGAATTTGAAGTCAATCAATAAAGTGAACCCCTTCTGTCTGT-AAAGATTTTATTTTCAAGCAA 1744
Db 1721 TGAATTTGTGATCAACATAGAGGTGACCCCTTCCCTATGTGGAATTTTAAATTTCAAGGAA 1780
QY 1745 ATATTTATGACCTCAACAAAGAAAGAACCA-----TCTTTTGTGTAAGTTTCAACGTAGTAACA 1800
Db 1781 ATACTTATGATCTCATCAAGGGAATAATAGATGTCACTTGTGTTAAATTTCACTGTAGTGATG 1840
QY 1801 CATTAAGTAANTGCTACCTCTGATCAAGCACCTTGAATGGAAGGTCGCGAGTCTTTTATG 1860
Db 1841 CATAAAGGAAAAGCTACCTCTGACCTCTAGCCAGATCAACCTCTATGGAAGTTCCATAG 1900
QY 1861 TGTTTTTCGAAGGAATGAATCAATTAATTTTAGACTTTTAACTTTTAACTTTCAACTTTAAAT 1920
Db 1901 GGNATATGTGAGGAA-----AATGTGCTTCCAAATTTAAATTTTCACTTTATGT 1951
QY 1921 TAGCATCTCGCTTAAGCATCATTTTCACTCCATTTTCTTGGTTTGTATTTGTTTAAAAA 1980
Db 1952 TATAGTCTAGTTAAGACATCAGGGGCATCTCTGTTTCTTGGTTTGTATTTGTTGAAAGA 2011
QY 1981 A 1981
Db 2012 A 2012

RESULT 10
US-09-826-509-546
; Sequence 546, Application US/09826509
; Patent No. 6806054
; GENERAL INFORMATION:
; APPLICANT: Lehmann-Bruinsma, Karin
; APPLICANT: Liaw, Chen W.
; APPLICANT: Lin, I-lin
; TITLE OF INVENTION: No. 6806054-Endogenous, Constitutively Activated Known G
; FILE OF INVENTION: Protein-Coupled Receptors
; FILE REFERENCE: AREN-207
; CURRENT APPLICATION NUMBER: US/09/826,509
; CURRENT FILING DATE: 2001-04-05
; PRIOR APPLICATION NUMBER: 60/195,747
; PRIOR FILING DATE: 2000-04-07
; PRIOR APPLICATION NUMBER: 09/170,496
; PRIOR FILING DATE: 1998-10-13
; NUMBER OF SEQ ID NOS: 589
; SOFTWARE: Patentin Version 2.1
; SEQ ID NO 546
; LENGTH: 1182
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-826-509-546

Query Match 53.8%; Score 1163.6; DB 3; Length 1182;

Best Local Similarity 99.7%; Pred. No. 3.7e-297;
Matches 1166; Conservative 0; Mismatches 4; Indels 0; Gaps 0;
QY 213 ATGGACACAGGGCTGCCCCACGACGAAAGCCAGCAATTCGACTGATGCGCTTGGCGTACTCA 272
Db 1 ATGGACACAGGGCTGCCCCACGACGAAAGCCAGCAATTCGACTGATGCGCTTGGCGTACTCA 60
QY 273 AGTTGCTCCCGACGACCCAGCGCCCGGTTCTTGGGTCAACTTGTCCCACTTTAGATGSCAAC 332
Db 61 AGTTGCTCCCGACGACCCAGCGCCCGGTTCTTGGGTCAACTTGTCCCACTTTAGATGSCAAC 120
QY 333 CTGTCCGACCCATGCGGTCCGAAACCGCAACCTTGGGCGGAGAGACAGCCCTATGCCCT 392
Db 121 CTGTCCGACCCATGCGGTCCGAAACCGCAACCTTGGGCGGAGAGACAGCCCTATGCCCT 180
QY 393 CGGACGCGAGTCCCTCCATGATCAGGCGCATCAGATCATGCGCCCTCTACTCCATCGTG 452
Db 181 CGGACGCGAGTCCCTCCATGATCAGGCGCATCAGATCATGCGCCCTCTACTCCATCGTG 240
QY 453 TCGGTGGTGGGCTCTTCGGAACTTCTGGTCAATGATGATGATGATGATGATGATGATGATG 512
Db 241 TCGGTGGTGGGCTCTTCGGAACTTCTGGTCAATGATGATGATGATGATGATGATGATGATG 300
QY 513 ATGAAGACTGCCCAACCAATCTACATTTTCAACCTTGTCTGGCAGATGCGCTTAGCCACC 572
Db 301 ATGAAGACTGCCCAACCAATCTACATTTTCAACCTTGTCTGGCAGATGCGCTTAGCCACC 360
QY 573 AGTACCTGCCCTTCCAGAGTGTGAATTTACCTAATGGGAACATGCGCATTTGGAACCATC 632
Db 361 AGTACCTGCCCTTCCAGAGTGTGAATTTACCTAATGGGAACATGCGCATTTGGAACCATC 420
QY 633 CTTTTCGAAGATAGTATCTCCATAGATTAATAACATGTTTCCACAGCATATTTACCCCTC 692
Db 421 CTTTTCGAAGATAGTATCTCCATAGATTAATAACATGTTTCCACAGCATATTTACCCCTC 480
QY 693 TGCACCATGAGTGTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 752
Db 481 TGCACCATGAGTGTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 540
QY 753 CGTACTCCCGAAATGCGCAAAATTTATCAATGCTCGCACTGATGATGATGATGATGATGATG 812
Db 541 CGTACTCCCGAAATGCGCAAAATTTATCAATGCTCGCACTGATGATGATGATGATGATGATG 600
QY 813 GGTCTTCTGTAAATGTTTCAATGCTTACAAATAACAGGCAAGGTTTCCATAGATTTGATCA 872
Db 601 GGTCTTCTGTAAATGTTTCAATGCTTACAAATAACAGGCAAGGTTTCCATAGATTTGATCA 660
QY 873 CTAACATTTCTCATCCAACTGGTACTGGGAAAACCTCGTGAAGATCTGTGTTTTCATC 932
Db 661 CTAACATTTCTCATCCAACTGGTACTGGGAAAACCTCGTGAAGATCTGTGTTTTCATC 720
QY 933 TTCGCTTTCATTTATGCGAGTCTCATATTACCGTGTGATGATGATGATGATGATGATGATG 992
Db 721 TTCGCTTTCATTTATGCGAGTCTCATATTACCGTGTGATGATGATGATGATGATGATGATG 780
QY 993 CTCAGAGTGTCCGATGCTCTCTGGCTCCAAAGAAAAGGACAGGAATCTTCGAAGGATC 1052
Db 781 CTCAGAGTGTCCGATGCTCTCTGGCTCCAAAGAAAAGGACAGGAATCTTCGAAGGATC 840
QY 1053 ACCAGGATGCTGCTGTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTG 1112
Db 841 AAGAGGATGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTG 900
QY 1113 TAGTCTCATTTAAAGCCCTTGTGTACAAATCCAGAACTACGTTCCAGACTGTTTCTTGG 1172
Db 901 TAGTCTCATTTAAAGCCCTTGTGTACAAATCCAGAACTACGTTCCAGACTGTTTCTTGG 960
QY 1173 CACTTCTGATGCTCTAGTGTACAAACAGCTGCTCAACCCAGTCCCTTTATGCAATTT 1232
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Db 1021 CTGATGAAATTTCAAACGATGCTTCAGAGAGTTCTGTATCCCAACCTCTTCCAAACATT 1080
Qy 1293 GAGCAAAATCCCACTCGAATTCGTTCAGACACTAGACACACCCCTCCACGGGCAAT 1352
Db 1081 GAGCAAAATCCCACTCGAATTCGTTCAGACACTAGACACACCCCTCCACGGGCAAT 1140

Qy 1353 ACAGTGATAGAACTAATCATCAGCTAGAA 1382
Db 1141 ACAGTGATAGAACTAATCATCAGCTAGTA 1170

RESULT 11
US-08-387-707-15
; Sequence 15, Application US/08387707
; Patent No. 6265563
; GENERAL INFORMATION:
; APPLICANT: EVANS, CHRISTOPHER J.
; APPLICANT: KEITH, DUANE E.
; TITLE OF INVENTION: OPIOID RECEPTOR GENES
; NUMBER OF SEQUENCES: 18
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MORRISON & FOERSTER
; STREET: 2000 Pennsylvania Avenue, N.W. Suite 5500
; CITY: Washington
; STATE: DC
; COUNTRY: USA
; ZIP: 20006-1888
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA: US/08/387,707
; APPLICATION NUMBER: US/08/387,707
; FILING DATE: 10-SEP-1995
; CLASSIFICATION: 536
; ATTORNEY/AGENT INFORMATION:
; NAME: MURASHIGE, KATE H.
; REGISTRATION NUMBER: 29,959
; REFERENCE/DOCKET NUMBER: 22000-20526.20
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (202) 887-1500
; TELEFAX: (202) 887-0763
; INFORMATION FOR SEQ ID NO: 15:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1981 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
US-08-387-707-15

Query Match 53.1%; Score 1147; DB 3; Length 1981;
Best Local Similarity 77.5%; Pred. No. 1.2e-292;
Matches 1511; Conservative 0; Mismatches 411; Indels 28; Gaps 9;
Qy 9 GGCTATAGGACGAGAGAAATCTCAGATGCTCAGCTCGGTCCCTCCGCTGACGCTCCTC 68
Db 52 GGATACAGCAGAGAGAAATATCGACGCTCAG-ACGTTCAATTTCTGCTGCGCTCTTC 110
Qy 69 TCTGCTCAGCCAGGACTGGTTTCTGTAAGAAACAGCAGGAG-CTGTGGCAGCGCGAAA 127
Db 111 TCTGGTTCCATAGGGCTTGTCCTGTAGAAATCTGACGAGCCTAGGCGAGCTGTGAGA 170
Qy 128 GGAAGCGGCTGAGCGCTTGGAAACCCGAAAGTCTCGGTGCTCTCGGTACCTCGCACAG 187
Db 171 GGAAGAGGCTGGGGCGCTGGAAACCCGAAACACTCTTGAGTGTCTCTCAGTTACAGNCTACC 230
Qy 188 CGGTGCGCGCGCGCTGAGTACATGGAAGAGCGCTGCCCGCCACGAAACGCGCAAA 247
Db 231 GAGTCCGCGGAAGCAATTCAGAACCATGGAAGAGCGCGCGCGCGCAATCAGCGGA 290
Qy 248 TTGCACTGATGCTTGGCGTACTCAAGTTGCTCCCGCAGCACCCAGCGCTTCTCGGT 307

Db 291 CTGCTCTGACCCCTTAGCTCTCTGCAAGTTGCTCCCCAGCA-----CTGGCTCTGGCT 344
Qy 308 CAACTTGTGCCACTTAGATGGCAACCTGTCCGACCCATGGGTCCGAACCGCACCAACCT 367
Db 345 CAACTTGTGCCAGTTGATGGAAACAGTCCGACCCATGGGTCTTAACCCGACGGGCT 404
Qy 368 GGGCGGAGAGACAGCCTATGCCCTCCGACCGGAGTCCCTCCATGATCAGGGCCATCAC 427
Db 405 TGGCGGGAACGACAGCCTGTGCCCTCAGACCGGACGCCCTTCCATGGTCAAGCCATCAC 464
Qy 428 GATCATGGCCCTCTACTCGTGTGGTGGGGCTCTTCCGAAACTTCTCGTGTGTCAT 487
Db 465 CATCATGGCCCTCTATCTGTGTGTAGTGGGCTCTTTTGGAAACTTCTCTGGTTCAT 524
Qy 488 GTATGTGATTGTGAGATACACCAAGATGAAGACTGCCCAACCAACATCTACATTTTCAACCT 547
Db 525 GTATGTGATTGTGAAGATATACCAAAATGAAGACTGCCCAACCAACATCTACATTTTCAACCT 584
Qy 548 TGCTCTGGGAGATGCCCTTAGCCACCAAGTACCCCTGCCCTTCCAGAGTGTGAATTACCTAAT 607
Db 585 TGCTCTGGCAGATGCCCTTAGCCACTAGCACGCTGCCCTTTTCAGAGTGTTAACCTACCTGAT 644
Qy 608 GGGAACTGGCCATTTGGAAACCATCTTTGCAAGATAGTGTCTCCATAGATTACTATAA 667
Db 645 GGGAACTGGCCCTTTGGAAACCATCTCTGCAAGATCGTGTCTCAATAGACTACTACAA 704
Qy 668 CATGTTTACCAGCATATTCACCCCTCTGCACCATGAGTGTGATCGATACATATGCACTG 727
Db 705 CATGTTTACCAGTATCTTACCCCTCTGCACCATGAGTGTGATAGCGGTACATATGCGGTCTG 764
Qy 728 CCACCCTGTCAAGGCTTAGATTTCCGTACTCCCCGAAATGCCAAAATTAATATCAATGTCTG 787
Db 765 CCACCCTGTCAAGGCTTGGATTTCCGTACTCCCCGAAATGCCAAAATTTGCAATGTCTG 824
Qy 788 CAACTGGATCCTCTCTTTCAGCCATTTGGTCTGCTGTAATGTTTCATGCTGCTACACAAATA 847
Db 825 CAACTGGATCCTCTCTTTCAGCCATTTGGTCTGCGGTAATGTTTCATGCAACCAACCAATA 884
Qy 848 CAGGCAAGGTTCCATAGATTGTACATTAACATTTCTCATCCAACTGGTACTTGGGAAAA 907
Db 885 CAGGCAAGGTTCCATAGATTGTACCCCTCAGCTTCTCTCATCCACATGGTACTTGGGAGAA 944
Qy 908 CCTGTGGAAGATCTGTGTTTTCATCTTTCGCTTTCATTTATGCCAGTGTCTCATATACCGT 967
Db 945 CCTGTCAAATCTGTGTCTTTCATCTTTCGCTTTCATCATCGCGGCTCATCATCACTGT 1004
Qy 968 GTGCTATGAGTATGATCTTGGCCCTCAAGAGTGTCCGATGCTCTCTGGCTCCAAAGA 1027
Db 1005 GTGTTATGGACTGATGATCTTACAGCTCAAGAGTGTCCGATGCTGTGCGGCTCCAAAGA 1064
Qy 1028 AAAGGACAGGAATCTTCGAAGGATCACAGGATGGTGTGCTGGTGTGGTGTGTTTCAT 1087
Db 1065 AAAGGACAGGAATCTGGCAGGATCACCCGAGTGGTGTGCTGGTGTGCTGTGTTAT 1124
Qy 1088 CGTCTGTGAGCTCCCATTTACATTTTACGTCATCATTTAAAGCCTTGGTTTCAATCCAGAA 1147
Db 1125 TGTCTGTGAGCCCCCATCCACATCTATGTTCATCATCAAAGCACTGATCAGATTCCAGA 1184
Qy 1148 AACTAGCTTCCAGACTGTTTCTTGGGACTTCTGCAATTTGCTGTAGTTTACACAAACAGCTG 1207
Db 1185 AACCACTTTCAGACTGTTTCTCTGGCACTTCTGCAATTTGGCTTGGGTTTACACAAACAGCTG 1244
Qy 1208 CCTCAACCCAGTCTTTATGTCATTTCTGGATGAAACTTCAAAAGTGTCTTCAGAGATT 1267
Db 1245 CCTGAAACCCAGTCTTTATGCGTTCCTGGAAGAAACTTCAAAGATGTTTTAGAGATT 1304
Qy 1268 CTGTATCCCAACCTCTTCCAAACATTTAGCAACAAAACTCCACCTCGAATTCGTTCAGAACAC 1327
Db 1305 CTGATCTCCCACTTCTCTCCACATCGNACAGCAAACTCTGCTCGAATCCGTCAAACAC 1364
Qy 1328 TAGAGACCAACCTTCCACCGCCCAATACAGTGGATAGAACTAATCATCAGCTAGAAATCT 1387
Db 1365 TAGGGAACACCCCTCCACCGGCTAATACAGTGGATCGAACTAAACCAACGAGCTAGAAATCT 1424

1388 GGAAGCAGAACTGCTCCGTTCCCTTACAGGCTCTCATGCGATTCGACCTTCACCAAG 1447
1425 GGAAGCAGAACTGCTCCGTTCCCTTACAGGCTCTCATGCGATTCGACCTTCACCAAG 1484
1448 CTTAGAAGCCACATGATGTGGAAGCAGGTTGCTTCAAGAATGTGTAGAGGCTCTAAT 1507
1485 CTTAGAAGCTGCACTACTTGGATCAGTTGCTGTAGGCTTGTGGAGGCTCTGT 1544
1508 TCTTAGGAAGTGCTACTTTTAGGTCAATCAAACTCTTTCTCTCTGCGCCTCTGTCT 1567
1545 TTCTCTGAAAGCATCTGATCTGCTGATCAATCAAAAGTCAATCTCTCTGCTTATTC-ACG 1603
1568 CTGCACATTTAGAGGACCCAAAGTAAGTGGAGCAATTTGGAAGGAAGGATATACCA 1627
1604 CTACAGCTCAGAGACA---CTCAGACTGTGTCAAGCACTCAGAAAGGAAGAGACTGCGAGC 1660
1628 CACGAGGAGTCCAGTT--TGTGCAAGACACCCAGTGGAAACCAAAACCCATCGTGTATG 1685
1661 CACTACTGAATCAGCTCATGTACAGAAACATCCATGGACCAATATCTCTGTGTATG 1720
1686 TGAATTGAAGTCATCATATAAAGTGACCTTCTGTCTGT-AAGATTTTATTTTCAAGCAA 1744
1721 TGATTTGTGATCAACATAGAAGTGACCTTCCCTATGTGGAATTTTAAATTTCAAGGAA 1780
1745 ATATTTATGACCTCAACAAAGAAAGCA---TCTTTTGTAAAGTTCACCGTGTAAACA 1800
1781 ATACTTATGATCTCATCAAGGGGAAATATAGATGTCACTTGTAAATTTCACTGTAGTATG 1840
1801 CATAAAGTAAATGCTACCTCTGATCAAAAGCACCTTGAATGGAAGGTCGAGTCTTTTATG 1860
1841 CATAAAGGAAGTACTCTGACCTTAGCCCTAGCCAGTCACTCTATGGAAGTTCCATAG 1900
1861 TGTTTTTGAAGGGAATGAATCAATTTATTTTATTTTATTTTATTTTATTTTATTTTAT 1920
1901 GGAATATGTGAGGAA-----AATGTGCTTCCAAATAAATTTTACCTTTATGT 1951
1921 TAGCATCTGGCTAAGGCATCAATTTTACCT 1950
1952 TATAGTCTAGTTAAGACATCAGGGGCATCT 1981

RESULT 12

US-08-405-271A-15
Sequence 15, Application US/08405271A
Patent No. 6432652
GENERAL INFORMATION:
APPLICANT: EVANS, CHRISTOPHER J.
APPLICANT: KEITH, DUANE E.
TITLE OF INVENTION: OPIOID RECEPTOR GENES
NUMBER OF SEQUENCES: 25
CORRESPONDENCE ADDRESS:
ADDRESSEE: MORRISON & FOERSTER
STREET: 2000 PENNSYLVANIA AVENUE, NW, Suite 5500
CITY: WASHINGTON
STATE: DC
COUNTRY: USA
ZIP: 20006-1888
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/405,271A
FILING DATE: 14-MAR-1995
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: MURASHIGE, KATE H.
REGISTRATION NUMBER: 29,959
REFERENCE/DOCKET NUMBER: 22000-20526.22
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 887-1500

TELEFAX: (202) 887-0763
TELEX: 90-4030 MRSNFOERSWSH
INFORMATION FOR SEQ ID NO: 15:
SEQUENCE CHARACTERISTICS:
LENGTH: 1981 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
US-08-405-271A-15
Query Match 53.1%; Score 1147; DB 3; Length 1981;
Best Local Similarity 77.5%; Pred. No. 1.2e-292;
Matches 1511; Conservative 0; Mismatches 411; Indels 28; Gaps 9;
QY 9 GCCTATAGGCAGAGAGAGATGTTCAGATGCTCAGCTCGGTCCGCTCCGCTGACGCTCCCTC 68
DB 52 GGATCAAGCAGAGAGAGATATCGGACGCTCAG-AGTTCATTTCTGCTCGCTCGCTCTTC 110
QY 69 TCTGTCTCAGCCAGGACTGGTTTCTGTAAAGAAACAGCAGGAG-CTGTGGCAGCGGCGAAA 127
DB 111 TCTGGTTCACCTAGGCTTGCTCTTGTAAAGAACTGACGGAGCCTAGGCGAGCTGTGAGA 170
QY 128 GGAAGCGCTGAGGCGCTTGGAAACCGGAAAAGTCTCGGTGCTCTCGGTACCTACGCGACAG 187
DB 171 GGAAGAGGCTGGGGCGCTCGGAAACCGGAACTCTTGTGAGTGTCTCTCAGTTACAGNCTACC 230
QY 188 CGTGCCCGCGCGCGCTCAGTACCATGAGACAGAGCGCTGCCGCCACGAAACGCCAGCAA 247
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QY 248 TTGCACTCATGCTCTGGGCTACTCAAGTTGCTCCCGAGCACCGCCCGGTTCTGGGT 307
DB 291 CTGCTCTGACCTTAGCTCTCTGCAAGTTGCTCCCGAGCA-----CCTGGCTCTGGCT 344
QY 308 CAACTTGTCCTCATTAGATGGCAACCTGTCCGACCCATCGGTGCGAAACGCCAGCAACCT 367
DB 345 CAACTTGTCCTCATTAGATGGAAACCGAGTCCGACCCATCGGTGCTTAAACCGACGGGCT 404
QY 368 GGGCGGAGAGACAGCTATGCCCTCCGACCGGAGTCCCTCCATCATCAGCGCCATCAC 427
DB 405 TGGCGGGAACGACAGCCTGTGCCCTCAGACCGGAGCCCTTCCATGGTCAAGCCATCAC 464
QY 428 GATCATGGCCCTCTACTCCATCGTGTGGTGGGGCTCTTTCGGAACCTTCTCGTGTAT 487
DB 465 CATCATGGCCCTCTATTCTATCTGTGTGTAGTGGGCTCTTTTGGAAACTTCTCGTGTAT 524
QY 488 GTATGTGATTTGATGATACCAAGATGAAGACTGCAACCAACATCTACATTTTCAACCT 547
DB 525 GTATGTGATTTGAAGATATACCAAAATGAAGACTGCCACCAACATCTACATTTTCAACCT 584
QY 548 TGCTCTGGCAGATGCCCTTAGCCACAGTACCCCTGCCCTTCCAGAGTGTGAATTTACCTAAT 607
DB 585 TGCTCTGGCAGATGCCCTTAGCCACAGTACCCCTGCCCTTCCAGAGTGTGAATTTACCTAAT 644
QY 608 GGGAAACATGGCCATTTTGGAAACCATCTCTTTCGAAGATAGTGTATCTCCATAGATTACTATAA 667
DB 645 GGGAAAGTGGCCCTTTGGAAACATCTCTCTGCAAGATCGTGTCTCAATAGACTACTACAA 704
QY 668 CATGTTACACAGATATTCACCTCTGACCATGAGTGTGTGATCGATACATTCAGTCTG 727
DB 705 CATGTTACACAGTATCTTCCACCTCTGACCATGAGTGTGATAGCCGCTACATTTCCGCTG 764
QY 728 CCACCTGTCAAGGCTTAGATTTCCGTAATCTCCGAAATGCCAAATTTATCAATGTCTG 787
DB 765 CCACCCGGTCAAGGCTTGGATTTCCGTACCCCGAAATGCCAAATTTGTCAATGTCTG 824
QY 788 CAACTGGATCTCTCTTTCAGCCATTTGCTTCTCTGTAATGTTCATGGCTACAAACAAATA 847
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DB 885 CAGGCAAGGTTCCATAGATTGCAACCTCAGTTCTCTCATCCACATGGTACTGGGAAA 944

Db 302 ATGTGATTGTAAGATACACCAAAATGAAGACTGCCACCAACATCTACATTTTCAACCTTG 361
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Db 362 CTCTGCGACAGCGCTTAGCGACAGTACATCTGCGCTTTCAGAGTGTCAACTACCTGATGG 421
Qy 610 GAACATGGCCATTGGAACCATCTCTTTCGAAGATAGTGATCTCCATAGATTAATAACA 669
Db 422 GAACATGGCCCTTCGGAACCATCTCTGCAAGATCGTGATCTCAATAGATTAATAACA 481
Qy 670 TGTTCAACAGCATATTCAACCCTCTGCACCATGAGTGTGTGATCGATATTAATGAGTCTGCC 729
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Qy 790 ACTGGATCCTCTCTTCAGCATTTGGTCTTCTGTAATGTTTCATGGCTACACAAATACA 849
Db 602 ACTGGATCCTCTCTTCGCAATCGGTCTGCGTGAATGTTTCATGGCAACCAAAATACA 661
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Qy 910 TCGTGAAGATCTGTGTTTCACTTCGCGCTTCATTAAGCGAGTGTCTCATTAATACGTTG 969
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Qy 970 GCTATGGAATGATGATCTTGGCGCTCAAGAGTGTCCGATGCTCTGCGCTCCAAAGAA 1029
Db 782 GTTACGGCTGATGATCTTACGACTCAAGAGGCTTCGCATGCTATCGGGCTCCAAAGAA 841
Qy 1030 AGGACAGGAATCTTCAAGAGGATCACCAAGATGGTGTGTTGGTGGTGTGTTTCATCG 1089
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Qy 1090 TCTGCTGGAATCTCCATTCATATTACGTCAATTAAGCGCTTGGTTTCAATCCAGAA 1149
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Db 962 CCACATTTCAAGCGGTTTCTGGCACTTCTGATTTCTGATTTCTGATTTACAGAGCTGCC 1021
Qy 1210 TCAACCCAGTCTTTATGATTTCTGGATGAAACTTCAACGATGCTTTCAGAGATTCT 1269
Db 1022 TGNATCCAGTTCTTTAGCGCTTCTGGATGAAACTTCAAGCGATGCTTTCAGAGATTCT 1081
Qy 1270 GTATCCCAACCTTCTCCAACTTAGAGCAACAAACTCCACTCGAATTCGTCAAGACTTA 1329
Db 1082 GCATCCCAACCTTCTCCAGATGCAACAGCAAACTCCACTCGAGTCCGTCAAGACTTA 1141
Qy 1330 GAGACACCTTCCAGCGCAATACAGTGGATAGACTTAATCATCAGCTAGAAATCTCG 1389
Db 1142 GGGAACTCCCTCCAGCGTAATACAGTGGATGGAATCAACCAAGCTAGAAATCTCG 1201
Qy 1390 AAGCAGAACTGCTCGGTTGCCCTTAACAGGTTCTCATGCCATTCAGGCTTCCCAAGCT 1449
Db 1202 AGGCAAACTGCTCACTTGGCTTAATCTGGTCTACACCATCCAGACCTCGCTAAGT 1261
Qy 1450 TAGAAGCCCACTGATGTGGAAGCAGGTTGCTTCAAGATGTGTAGGAGGCTCTAATTC 1509
Db 1262 TAGAGCCGCCATCTACGTGGAAATCAGGTTGCTGTGAGGTTGTTGGAGGCTCTGGTT 1321
Qy 1510 TCTAGAAAGTGCCTACTTTTAGGTCAATCCAACTTCTTCTCTGCGCACTCTGCTCT 1569
Db 1322 CTTGAGAAA---CCATCTGATCTCTGCAATCAAAAGTCAITTCCTCTCTGGCTACTCTCT 1378
Qy 1570 GCACATTAGAGGAGCAGCAAAAGTAAGTGGAGCATTTTGAAGGAAAGGAATATACCA 1629

Db 1379 GCACATGAGAGAT---GCTCAGACTGTATCAAGTACTCAGAAAGAGAGACTACCGACA 1435
Qy 1630 CCGAGGAGTCCAGTTTGTGCAAGACACCCAGTGA------ACCAAAACCCATCG 1678
Db 1436 CTCCTGAATCCAGCTCATGTACAGAACCATCTGAAACACCCAGTGACCAATGCTCTG 1495
Qy 1679 TGGTATGTGAATTTGAAGTCAATCAAAAAGGTGACCCCTTCTGTCTGTAAGATTTT--ATTT 1736
Db 1496 TGGTATGTGAATTTTCGATCATCATAGAAGGTGACCCCTCTCTATGTAGAATTTTATTTT 1555
Qy 1737 TCAAGCAATATTTATGACCTCAACAAAGAAGA-ACCATCTTTTGTGTAAGTTCACCGTAG 1795
Db 1556 TCAAGCAATATCTTATGACCTCATCAAGAAAATTAATGTCACTTGTAAATTCACGTAG 1615
Qy 1796 TAAACATATAAGTAATGCTACTCTGATCAAGCACCTTGAATGGAAGTCCGAGTCTT 1855
Db 1616 TGATACATAAAGTAATGCTACTCTGACCTCTGACCT-----AGTCACCTTCTG 1665
Qy 1856 TTTAGTGTTTTTCGAAGGGAATGAATCCATTTATTTTAGACTTTTAACTTCAACTT 1915
Db 1666 TAGAGATTCCAGTCTTTTGTGATGGAATACATCATTTCCAACTTAAAACTTTCACTT 1725
Qy 1916 AAAATTAGATCTGCTAAGGATCATTTTCACTCCATTTCTTGGTTTGTATGTTTA 1975
Db 1726 GAAGTTATGTTCTAGTTAAGACATCAGGGGACCTCCGTTTCTTGGTTTGTATGTTT 1785
Qy 1976 AAAAAATAACATCTTTTCATCTAGCTCCATAATTGAAGGAGAGATAGCATGAA 2035
Db 1786 AAGAAGACGACATCTTCTCTTAGCTGTGTGTTGAAATGAAAGGATGAAAGCACA 1845
Qy 2036 G 2036
Db 1846 G 1846

RESULT 14

US-08-889-108-1
; Sequence 1, Application US/08889108
; Patent No. 6103492
; GENERAL INFORMATION:
; APPLICANT: Yu, Lei
; TITLE OF INVENTION: Mu Opioid Receptors: Compositions and Methods
; NUMBER OF SEQUENCES: 17
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Arnold, White & Durkee
; STREET: P. O. Box 4433
; CITY: Houston
; STATE: TX
; COUNTRY: USA
; ZIP: 77210-4433
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/889,108
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/305,518
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Wilson, Mark B.
; REGISTRATION NUMBER: 37,259
; REFERENCE/DOCKET NUMBER: INDA005\WIM
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 512-418-3000
; TELEFAX: 512-474-7577
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1618 base pairs
; TYPE: nucleic acid

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; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (cdna)
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 214..1410
; US-08-889-108-1

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Query Match	50.8%	Score 1099	DB 3	Length 1618
Best Local Similarity	83.3%	Pred. No. 5.1e-280		
Matches 1311	Conservative 0	Mismatches 250	Indels 12	Gaps 5
Qy	9	GGCTATAGGCAGAGAGAACTGTCAAGTGTCTCAGCTCCGTCGGTCCCTCCGCTCAGCGCTCAGCGTCCCTC	68	
Db	11	GGCTACAAGCAGAGAGATATACAGCGTCAAG-ACGTTCCCTTCTGCTGCGCTCTTC	69	
Qy	69	TCTGTCTCAGCCAGGACTGGTTTTCTGTAAAGAAACAGCAGGAG-CTGTGGGCAGCGCGGAA	127	
Db	70	TCTGGTTCACATAGGGCTGGTCCATGTAAAGAACTGTACGAGAGCTTAGCGAGCTGTGAGA	129	
Qy	128	GGAAAGCGCTCAGAGCGCTTGGAACCCGNAAGTCTCGGTGCTCCTGGTCTACCTCGCACAG	187	
Db	130	GGAAAGAGCTGGGGCGGTGGAACCCGNAAGTCTGAGTGTCTCAGTTACAGCGTAC-C	188	
Qy	188	CGGTGCCCGCCGCGCTCAGTACATGACAGCAGCGCTGCCCCACAGAACCGCAGCAA	247	
Db	189	TAGTCCGAGCAGCGCTTTCACACATGACAGCAGCACCGGCCAGGGAACACGAGGA	248	
Qy	248	TTGCACCTGATGCTTTGGCGTACTCAAGTTGTCTCCCGACGACCCAGCCCCGGTTCTGGGT	307	
Db	249	CTGCTCAGACCCCTTAGCTCAGGCAAGTTGTCTCCCGACA-----CTGGCTCTGGCT	302	
Qy	308	CAACTTGTCCACTTAGATGCAACCTGTGCGACCCATGCGGTCCGACCGCACCGCAACCT	367	
Db	303	CAACTTGTCCACAGTTGATGCAACCACTGCGATCCATGCGGTCTGAAACCGGACCGGCT	362	
Qy	368	GGGCGGAGAGACAGCGCTATGCCCTCCGACCGCGAGTCCCTCCATGATCAGCGGCATCAC	427	
Db	363	TGGCGGAAACGACAGCGCTGTGCCCTCAGACCGGCAGCCCTTCCATGGTACAGCCATTAC	422	
Qy	428	GATCATGGCCCTCTACTCCATCGTGTGGTGGGTCTTTGGGAAACTTCTCTGGGTGAT	487	
Db	423	CATCATGGCCCTCTACTCTATCGTGTGTGTAGTGGGCTCTTTGGGAAACTTCTCTGGTGT	482	
Qy	488	GTATGTGATGTGTGATACACCAAGATGAAGCTGCCACCAACATCTACATTTTCAACCT	547	
Db	483	GTATGTGATGTGTGATACACCAAAATGAAGACTGCCACCAACATCTACATTTTCAACCT	542	
Qy	548	TGCTCTGGCAGATGCTTTAGCACACAGTACCTGCGCTTCCAGAGTGTGAATTACTAAT	607	
Db	543	TGCTCTGGCAGCGCTTAGGACCAAGTACACTGCGCTTTTCCAGAGTGTCAACTCTGAT	602	
Qy	608	GGGAACATGGCCATTTGGAAACATCTTTTGAAGATAGTGATCTCCATAGATTACTATAA	667	
Db	603	GGGAACATGGGCCCTTTGGAAACATCTCTGCAAGATCGTGATCTCAATAGATTACTACAA	662	
Qy	668	CATGTTACACAGCATTTTACCCCTCTGCACCATGAGTGTGATCGATACATTTGCAAGTCTG	727	
Db	663	CATGTTACACAGCATTTTACCCCTCTGCACCATGAGCGTGGACCGCTACATTTGCTGTG	722	
Qy	728	CCACCTGTCAAGGCTTTAGATTTTCGCTACTCCCGAAATGCAAAATTTATCAATGTCTG	787	
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Qy	788	CAACTGGATCTCTCTTCAGGCAATGGGTCTTCTGTATGTTCATGGCTACCAAAATA	847	
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Qy	848	CAGCAGAGTTCCATAGATTTGTACATAACATTTCTCTCATCCAACTGCTAGTGGGAAA	907	
Db	843	CAGGAGAGGTTCCATAGATTTGTACATAACATTTCTCTCATCCCACTGCTAGTGGGAAA	902	
Qy	908	CCTCGTGAAGATCTGTGTTTTTCACTCTCGCCTTCAATTTATGCGAGTGTCTCATCATTTACCGT	967	

/	APPLICATION NUMBER: 08/305,518	
/	FILING DATE:	
/	ATTORNEY/AGENT INFORMATION:	
/	NAME: Wilson, Mark B.	
/	REGISTRATION NUMBER: 37,259	
/	REFERENCE/DOCKET NUMBER: INDA005\WIM	
/	TELECOMMUNICATION INFORMATION:	
/	TELEPHONE: 512-418-3000	
/	TELEFAX: 512-474-7577	
/	INFORMATION FOR SEQ ID NO: 3:	
/	SEQUENCE CHARACTERISTICS:	
/	LENGTH: 1618 base pairs	
/	TYPE: nucleic acid	
/	STRANDEDNESS: single	
/	TOPOLOGY: linear	
/	MOLECULE TYPE: DNA (cDNA)	
/	FEATURE:	
/	NAME/KEY: CDS	
/	LOCATION: 339..1235	
/	US-08-889-108-3	
	Query Match 50.8%; Score 1099; DB 3; Length 1618;	
	Best Local Similarity 83.3%; Pred. No. 5,1e-280;	
	Matches 1311; Conservative 0; Mismatches 250; Indels 12; Gaps 5	
Qy	9	GGCTATAGGCGAGAGAGAATGTACAGTGCCTAGCTCGGTCCCTCCGCTGACGCTCCTC 68
Db	11	GGCTACAGCAGAGAGAGAATATCAGACGCTCAG-ACGTTCCCTTCTGCCTGCCGCTCTTC 69
Qy	69	TCTGTCACGCGACGACGTGTTTCTGTAAGAAACAGCAGGAG-CGTGCGCAGCGCGAAA 127
Db	70	TCTGGTTCACATAGGGCTGGTCCATGTAAGAAATCTGACGGACCTTAGCGACGCTGTGAGA 129
Qy	128	GGAAGCGGCTGAGGCGCTTGGAACCCGGAAGTCTCGGTGCTCTGGCTACCTCGCACAG 187
Db	130	GGAAGGCTGGGCGCGTGGAAACCCGAAAGTCTGAGTGTCTCTCAGTTACAGCCTAC-C 188
Qy	188	CGGTGCCCGCCGCGCGTCAGTACCATGGACAGCAGCGGTGCCCCCAGAAACGCAGCA 247
Db	189	TAGTCCGACGAGGCGCTTTCAGCACCATGGACAGCAGCACCGGCCCCAGGGAACACAGCGA 248
Qy	248	TTGCACATGATGCTTGGCGTACTCAAGTTGCTCCCCAGCACCCAGCCCGGTTCTGGGT 307
Db	249	CTGCTCAGACCCCTTAGCTCAGGCAAGTTGCTCCCCAGCA-----CTGGGCTCTGGCT 302
Qy	308	CAACTGTGCCACTTAGATGGCAACTGTTCGACCCCATGCGGTCCGAAACCGCACCAACT 367
Db	303	CAACTGTGCCACGTTGATGGCAACCAAGTCCGATCCATGCGGTCTGAAACCGCACCGGCT 362
Qy	368	GGGCGGGAGACAGACCTATAGCCCTCCAGCGGCGAGTCCCTCCATGATCAGCGGCATCAC 427
Db	363	TGGCGGGAAACAGACGCTTGGCCCTCAGACCGGCGAGCCCTTCCATGGTTCACAGCCATTAC 422
Qy	428	GATCATGGCCCTCTACTCCATCGTGTGGTGGGGCTTTCGGAAACTTCTCGTGTCAAT 487
Db	423	CATCATGGCCCTCTACTCTATCGTGTGTAGTGGGCTCTTCGGAAACTTCTCGTGTCAAT 482
Qy	488	GTATGTGATGTGCAGATACACCAAGATGAAGACTGCCACCAACATCTACATTTCAAACCT 547
Db	483	GTATGTGATTGTAAGATACACCAAAATGAAGACTGCCACCAACATCTACATTTCAAACCT 542
Qy	548	TGCTCTGGCAGATGCCTTAGCCACCAAGTACCTGCGCTCCAGAGTGTGAATTACTTAAT 607
Db	543	TGCTCTGGCAGACGCTTAGCGACCAAGTACACTGCCCTTTTCAGAGTGTCAACTACTGTAT 602
Qy	608	GGGAACATGGCCATTGGAACCATCCTTTGCAAGATAGTGATCTCCATAGATTACTATAAA 667
Db	603	GGGAACATGGCCCTTCGGAAACCATCTCTGCAAGATCGTGATCTCAAATAGATTACTACAA 662
Qy	668	CATGTTACACGCAATTTCACCTCTGCACCAATAGTGTGTGATCGATCAATTGCAGTCTGT 727
Db	663	CATGTTACACGCAATTTCACCTCTGCACCAATAGCGTGGACCGCTACATTGCTGTCTGT 722

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: January 8, 2006, 19:50:21 ; Search time 309.514 Seconds
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Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 4637633 seqs, 364532575 residues

Total number of hits satisfying chosen parameters: 9275266

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

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8: /cgn2_6/ptodata/2/pubpna/US11_NEW_PUB_seq2.*
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10: /cgn2_6/ptodata/2/pubpna/US60_NEW_PUB_seq.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	2158.4	99.8	2162	7	US-11-127-877-18
2	453	21.0	1423	7	US-11-136-527-2066
3	362.6	16.8	2955	7	US-11-136-527-2954
4	233	10.8	8372	7	US-11-136-527-684
5	197.8	9.1	2116	7	US-11-136-527-3819
6	194.6	9.0	1685	6	US-10-750-185-36071
7	194.6	9.0	1685	6	US-10-750-623-36071
8	187.6	8.7	1238	6	US-10-995-561-321
9	187.6	8.7	1498	6	US-10-995-561-320
10	187.6	8.7	86131	6	US-10-995-561-13298
11	177	8.2	3635	7	US-11-136-527-2101
12	172.6	8.0	1384	7	US-11-136-527-2159
13	158.8	7.3	1560	7	US-11-136-527-3742
14	158.8	7.3	1865	6	US-10-533-355-9
15	151.8	7.0	856	6	US-10-750-185-62128
16	151.8	7.0	856	6	US-10-750-623-62128
17	141.4	6.5	1224	6	US-10-750-185-40492
18	141.4	6.5	1224	6	US-10-750-623-40492
19	125.6	5.8	600	7	US-11-136-527-6162
20	112.4	5.2	3985	7	US-11-136-527-3404
21	93.4	4.3	3219	7	US-11-136-527-4059
22	93.4	4.3	3295	7	US-11-136-527-3736
23	92.6	4.3	706	6	US-10-750-185-32790

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Sequence 3525, Ap
Sequence 3, Appli
Sequence 27, Appl
Sequence 3805, Ap
Sequence 9095, Ap
Sequence 9109, Ap
Sequence 48688, A
Sequence 3843, Ap
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Sequence 28, Appl
Sequence 196, App
Sequence 199, App
Sequence 197, App
Sequence 195, App

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US-11-127-877-28
US-10-995-561-196
US-10-995-561-199
US-10-995-561-197
US-10-995-561-195

ALIGNMENTS

RESULT 1

US-11-127-877-18
; Sequence 18, Application US/11127877
; Publication No. US20050287565A1
; GENERAL INFORMATION:
; APPLICANT: Merck, Pascal G.
; APPLICANT: Hoffmann, Marcel
; APPLICANT: Spittaels, Koenraad F. F.
; APPLICANT: Laenen, Wendy
; TITLE OF INVENTION: Methods, Compositions and Compound Assays For Inhibiting Amyloid-Beta Protein Production
; TITLE OF INVENTION: Amyloid-Beta Protein Production
; FILE REFERENCE: P27,800-B USA
; CURRENT APPLICATION NUMBER: US/11/127,877
; CURRENT FILING DATE: 2005-05-12
; PRIOR APPLICATION NUMBER: 60/570,352
; PRIOR FILING DATE: 2004-05-12
; PRIOR APPLICATION NUMBER: 60/603,948
; PRIOR FILING DATE: 2004-08-24
; NUMBER OF SEQ ID NOS: 590
; SOFTWARE: Patent in version 3.3
; SEQ ID NO 18
; LENGTH: 2162
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (2063)..(2063)
; OTHER INFORMATION: n is a, c, g, or t
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (2091)..(2091)
; OTHER INFORMATION: n is a, c, g, or t
US-11-127-877-18

Query Match 99.8%; Score 2158.4; DB 7; Length 2162;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 2163; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 GGAATTCGGCTATAGGCAGGAGATGTCTAGCTCGGTCCCTCCGCTCGA 60
Db 1 GGAATTCGGCTATAGGCAGGAGATGTCTAGCTCGGTCCCTCCGCTCGA 60
Qy 61 CGCTCCTCTCTGTCTAGCCAGGACTGGTTCTTAAGAACACAGAGCTGTGGCAGC 120
Db 61 CGCTCCTCTCTGTCTAGCCAGGACTGGTTCTTAAGAACACAGAGCTGTGGCAGC 120

QY 121 GCGAAGGAAGCGGCTGAGGCGCTTGGAACCGAAAAAGTCTCGTGCTCTCGGCTACCT 180
DB 121 GCGAAGGAAGCGGCTGAGGCGCTTGGAACCGAAAAAGTCTCGTGCTCTCGGCTACCT 180
QY 181 CGCACAGCGGTGCCCGCGCGCGGTGAGTACCATGACAGCAGCGCTGCGCCCGCACGAACG 240
DB 181 CGCACAGCGGTGCCCGCGCGCGGTGAGTACCATGACAGCAGCGCTGCGCCCGCACGAACG 240
QY 241 CAGCAATTCAGTATGCTTGGCGTACTCAAGTTGCTCCCGAGACCCAGCCCGGTT 300
DB 241 CAGCAATTCAGTATGCTTGGCGTACTCAAGTTGCTCCCGAGACCCAGCCCGGTT 300
QY 301 CTGGGTCAACTTGTCCCTTAGATGGCAACTGTCGACCCATGCGGTGCGGAACCGCA 360
DB 301 CTGGGTCAACTTGTCCCTTAGATGGCAACTGTCGACCCATGCGGTGCGGAACCGCA 360
QY 361 CCAACCTGGGCGGAGAGACAGCCTATGCGCCTCCGACCGGCGAGTCCCTCCATGATCACGG 420
DB 361 CCAACCTGGGCGGAGAGACAGCCTATGCGCCTCCGACCGGCGAGTCCCTCCATGATCACGG 420
QY 421 CMTACGATCATGGGCCCTCTACTCCATCGTGTGCGTGGGCTCTTCGGAACTTCC 480
DB 421 CMTACGATCATGGGCCCTCTACTCCATCGTGTGCGTGGGCTCTTCGGAACTTCC 480
QY 481 TGGTCATGTATGTGATTGTGAGATACACCAAGATGAAGACTGCAACCAATCTCATTT 540
DB 481 TGGTCATGTATGTGATTGTGAGATACACCAAGATGAAGACTGCAACCAATCTCATTT 540
QY 541 TCAACCTTGTCTGGCAGATGCCCTTAGCCACCAAGTACCCCTGCGCCTTCAGAGTGTGAAT 600
DB 541 TCAACCTTGTCTGGCAGATGCCCTTAGCCACCAAGTACCCCTGCGCCTTCAGAGTGTGAAT 600
QY 601 ACTAATGGGAACATGGCCATTTGGAAACCATCTTTGGCAAGATAGTATCGATCTCAATG 660
DB 601 ACTAATGGGAACATGGCCATTTGGAAACCATCTTTGGCAAGATAGTATCGATCTCAATG 660
QY 661 ACTATAACATGTTACAGCATATTCACCTCTGACCATGAGTGTGATCGATCAATG 720
DB 661 ACTATAACATGTTACAGCATATTCACCTCTGACCATGAGTGTGATCGATCAATG 720
QY 721 CAGTCTGCCACCTGTCAAGCCCTTAGATTTCCGTAATCCCGAAATGCCAAATTTATCA 780
DB 721 CAGTCTGCCACCTGTCAAGCCCTTAGATTTCCGTAATCCCGAAATGCCAAATTTATCA 780
QY 781 ATGCTGCAATCGATCTCTTTCAGCCATTTGGTCTTCTGTAATGTTTCATGGCTACAA 840
DB 781 ATGCTGCAATCGATCTCTTTCAGCCATTTGGTCTTCTGTAATGTTTCATGGCTACAA 840
QY 841 CAAAATACAGGCAAGGTTCCATAGATTGTACACTAACATTTCTCATCCAACTGGTACT 900
DB 841 CAAAATACAGGCAAGGTTCCATAGATTGTACACTAACATTTCTCATCCAACTGGTACT 900
QY 901 GGGAAACCTCTGTGAAGATCTGTGTTTTCATCTTCGCTTCATTTATGCCAGTCTCATCA 960
DB 901 GGGAAACCTCTGTGAAGATCTGTGTTTTCATCTTCGCTTCATTTATGCCAGTCTCATCA 960
QY 961 TTACCGTGTCTATGAGTATGATCTTGGCCCTCAAGAGTGTCCGATGCTCTCGGCT 1020
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QY 1021 CCAAGAAAGGACAGGAATCTTCGAAGGATCACAGGATGGTGGTGGTGGTGGTGGTGG 1080
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QY 1141 TCCAGAAACTAGTTCAGACTGTTTCTTGGCACTTCTGCACTTCTAGGTACACAA 1200
DB 1141 TCCAGAAACTAGTTCAGACTGTTTCTTGGCACTTCTGCACTTCTAGGTACACAA 1200
QY 1201 ACAGCTGCCTCAACCCAGTCTTTATGCACTTTCTGGATGAAACTTTCAAACGATGCTTCA 1260

DB 1201 ACAGCTGCCTCAACCCAGTCTTTATGCACTTTCTGGATGAAACTTTCAAACGATGCTTCA 1260
QY 1261 GAGAGTTCTGATATCCCAACCTCTTCCAAATGAGCAACAAACTCCCAATTCGTC 1320
DB 1261 GAGAGTTCTGATATCCCAACCTCTTCCAAATGAGCAACAAACTCCCAATTCGTC 1320
QY 1321 AGAACATAGAGACCAACCCCTCCACGGCCAATACAGTGGATAGAACTTAATCATCAGCTAG 1380
DB 1321 AGAACATAGAGACCAACCCCTCCACGGCCAATACAGTGGATAGAACTTAATCATCAGCTAG 1380
QY 1381 AAAATCTCGAAGCAGAAAATGCTCGTGTGCCCCCTTAACAGGGTCTCATGCCATTTCCGACCTT 1440
DB 1381 AAAATCTCGAAGCAGAAAATGCTCGTGTGCCCCCTTAACAGGGTCTCATGCCATTTCCGACCTT 1440
QY 1441 CACCAAGCTTAGAAGCCCATGTAATGGAAGCAGGTGCTTCAAGAAATGTTAGGAGG 1500
DB 1441 CACCAAGCTTAGAAGCCCATGTAATGGAAGCAGGTGCTTCAAGAAATGTTAGGAGG 1500
QY 1501 CTCTAAATCTCTAGGAAAGTGCCTACTTTTAGGTCACTCAACCTCTTTCTCTCTGGCCA 1560
DB 1501 CTCTAAATCTCTAGGAAAGTGCCTACTTTTAGGTCACTCAACCTCTTTCTCTCTGGCCA 1560
QY 1561 CTCTCTCTGCACTTAGAGGGAAGCAGCCAAAGTAAGTGGAGCATTTGGAAAGGAAGGAA 1620
DB 1561 CTCTCTCTGCACTTAGAGGGAAGCAGCCAAAGTAAGTGGAGCATTTGGAAAGGAAGGAA 1620
QY 1621 TATACCAACCGAGAGTCCAGTTTGTGCAAGACACCCAGTGGAAACCAACCTCGTG 1680
DB 1621 TATACCAACCGAGAGTCCAGTTTGTGCAAGACACCCAGTGGAAACCAACCTCGTG 1680
QY 1681 GTATGTGAATTTGAAGTCAATAAAGGTGACCTTCTGTCTGTGAAGTATTTATTTCAA 1740
DB 1681 GTATGTGAATTTGAAGTCAATAAAGGTGACCTTCTGTCTGTGAAGTATTTATTTCAA 1740
QY 1741 GCAATAATTTATGACCTCAACAAAGAAACCATCTTTTGTAAAGTTCAACCGTAGTAACA 1800
DB 1741 GCAATAATTTATGACCTCAACAAAGAAACCATCTTTTGTAAAGTTCAACCGTAGTAACA 1800
QY 1801 CATAAAGTAATGCTACCTCTGATCAAGACACCTTGAATGGAAGTCCGAGTCTTTTAG 1860
DB 1801 CATAAAGTAATGCTACCTCTGATCAAGACACCTTGAATGGAAGTCCGAGTCTTTTAG 1860
QY 1861 TGTTTTTCAAGGGAAATGAATCCATTTCTATTTTGAAGTCTTTAACTTTCAACTTTAAAT 1920
DB 1861 TGTTTTTCAAGGGAAATGAATCCATTTCTATTTTAGCTTTTAACTTTCAACTTTAAAT 1920
QY 1921 TAGCATCTGGCTTAAGGCATCATTTTCACTCCATTTCTTGGTTTTGTATTTGTTAAAAA 1980
DB 1921 TAGCATCTGGCTTAAGGCATCATTTTCACTCCATTTCTTGGTTTTGTATTTGTTAAAAA 1980
QY 1981 AATAACATCTCTTTTCACTAGCTCATTAATTTGCAAGGGAAGATAGCATGAAGGTAA 2040
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QY 2041 TCTGAAACACAGTCACTGTGCANCTGTAGAAAGTTGATTTCTCATGCACTNCAATACCT 2100
DB 2041 TCTGAAACACAGTCACTGTGCANCTGTAGAAAGTTGATTTCTCATGCACTNCAATACCT 2100
QY 2101 CCAAGAGTCACTATGAGGGGATTTTTCATTTCTTAGGCTTTCACTGGTGTGTTCTCGGAAT 2160
DB 2101 CCAAGAGTCACTATGAGGGGATTTTTCATTTCTTAGGCTTTCACTGGTGTGTTCTCGGAAT 2160
QY 2161 TC 2162
DB 2161 TC 2162

RESULT 2

US-11-136-527-2066
; Sequence 2066, Application US/11136527
; Publication No. US20050287570A1
; GENERAL INFORMATION:

```
; APPLICANT: Wyeth
; APPLICANT: Mounts, William M
; TITLE OF INVENTION: Probe Arrays For Expression Profiling of Rat Genes
; FILE REFERENCE: 031896-041000 (AM101086)
; CURRENT APPLICATION NUMBER: US/11/136,527
; CURRENT FILING DATE: 2005-05-25
; PRIOR APPLICATION NUMBER: US 60/574,294
; PRIOR FILING DATE: 2005-05-26
; NUMBER OF SEQ ID NOS: 362830
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 2066
; LENGTH: 1423
; TYPE: DNA
; ORGANISM: Rattus norvegicus
; US-11-136-527-2066

Query Match      21.0%; Score 453; DB 7; Length 1423;
Best Local Similarity 68.9%; Pred. No. 3.3e-128;
Matches 637; Conservative 0; Mismatches 285; Indels 3; Gaps 1;

Qy 406 CTTCCATGATCAGCGCCATCAGCATCAGATCGCCCTCTACTCCATCGTGTGGTGGGGC 465
Db 236 CGTCCCTGGCTCTGGCCATGCCATCAGCGCTCTACTCGGCTGTGTGGCGGTGGGC 295
Qy 466 TCTTCGGAACTTCTGTGTATGTATGTATGTATGTATGTATGTATGTATGTATGTAT 525
Db 296 TGTGGGGAAGCTGTGTATGTATGTATGTATGTATGTATGTATGTATGTATGTATGT 355
Qy 526 CCAACATCTACATTTTCAACCTTCTCTGGCAGATGCTTAGCCACAGTACCTTGCCT 585
Db 356 CCAACATCTACATTTTCAACCTTCTCTGGCAGATGCTTAGCCACAGTACCTTGCCT 415
Qy 586 TCCAGAGTGAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTA 645
Db 416 TCCAGAGCGCAAGTACCTGATGAAGAGTGGAGTGGAGTGGAGTGGAGTGGAGTGGAG 475
Qy 646 TGATCTCATGATTTACTATTAACATGTTTACAGCATATTCACCTCTGCAACATGAGTG 705
Db 476 TGTCTTCAATGATCTATCAACATGTTTACAGCATATTCACCTCTGCAACATGAGTG 535
Qy 706 TTGATCGATACATTTGCAATGTCGCCACCTGTCAAGGCTTAGATTTTCCGTACTCCCGAA 765
Db 536 TGGACCGCTACATTTGGGCTGTCCACCTGTCAAGGCTTAGATTTTCCGTACTCCCGAA 595
Qy 766 ATGCCAAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAAT 825
Db 596 AGGCCAAGCTGATCAACATATGATCTGGGCTTGGGCTTGGGCTTGGGCTTGGGCTT 655
Qy 826 TGTTCATGGCTACACAAATACAGGCAAGGTTCATAGATTTGATACATTAACATTTCTC 885
Db 656 TGGTCATGGCAGTACCAACCCCGGATGGAGCATGATGATGATGATGATGATGATGATG 715
Qy 886 ATCCAACTGTGTCTGGGAAACCTCTGTGAAGATCTGTGTGTGTGTGTGTGTGTGTGT 945
Db 716 GCCCCAGCTGTACTGGGACACTGTGACCAAGATCTGGGTGTCTCTTCTGCTTGGTG 775
Qy 946 TGCAGTGTCTCATATTAACGTTGTGTATGATGATGATGATGATGATGATGATGATGATG 1005
Db 776 TGCCCATTTCTCATCATACCTGTGTATGCTGTGTGTGTGTGTGTGTGTGTGTGTGTG 835
Qy 1006 GCATGCTCTCTGGCTCCAAAGAGGACAGGATCTTCGAAGGATCACAGGATGGTGC 1065
Db 836 GCCTGTCTGTGGCTTCCAAAGAGGAGGACCGAGCTTCGGCGGATACCGCATGGTGC 895
Qy 1066 TGGTGGTGGTGGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 1125
Db 896 TGGTGGTGGTGGGACCTTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 955
Qy 1126 AAGCCTGGTGAATC---CCAGAAACTAGTTCAGACTGTGTGTGTGTGTGTGTGTGTG 1182
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Qy 1183 TTGCTCTAGGTATACAAACAGCTGCTCAACCCAGTCTTTATGATCTTTTGTGATGAA 1242
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Db 1016 TTGCGCTGGGCTACGCAACAGCAGGCTCAACCGGTTCTTACGGCTTCTTGACGAGA 1075
Qy 1243 ACTTTAAAGCATGCTTTCAGAGAGTCTGTATCCAAACCTTCTTCCAAATTTGAGCAAAA 1302
Db 1076 ACTTCAAGCGCTGCTTCCGCCAGCTCTGTGCGGCGGCTGCGGCGGCAAGACCCGGCA 1135
Qy 1303 ACTCCACTGGAATTCGTGAGAACAC 1327
Db 1136 GCCTCCGCGCTCCCGCCAGGCCAC 1160

RESULT 3
US-11-136-527-2954
; Sequence 2954, Application US/11136527
; Publication No. US20050287570A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William M
; TITLE OF INVENTION: Probe Arrays For Expression Profiling of Rat Genes
; FILE REFERENCE: 031896-041000 (AM101086)
; CURRENT APPLICATION NUMBER: US/11/136,527
; CURRENT FILING DATE: 2005-05-25
; PRIOR APPLICATION NUMBER: US 60/574,294
; PRIOR FILING DATE: 2005-05-26
; NUMBER OF SEQ ID NOS: 362830
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 2954
; LENGTH: 2955
; TYPE: DNA
; ORGANISM: Rattus norvegicus
; US-11-136-527-2954

Query Match      16.8%; Score 362.6; DB 7; Length 2955;
Best Local Similarity 62.6%; Pred. No. 3.2e-100;
Matches 560; Conservative 3; Mismatches 332; Indels 0; Gaps 0;

Qy 424 TCACGATCATGGGCCCTCTACTCCATCGTGTGGTGGGCTCTTCGGAACTTCCTGG 483
Db 329 TCACCATCGTGGGGCTCTACTTGGCTGTGTGCATCGGGGGCTCTCTGGGAACTGCCTCG 388
Qy 484 TCATGTATGTATGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 543
Db 389 TCATGTATGTATGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 448
Qy 544 ACCTTGTCTGGCAGATGCTTACCCACAGTACCTTCCAGAGTGTGTGTGTGTGTGTGT 603
Db 449 ATCTGGCACCTGGGCTGTATACCTTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 508
Qy 604 TAATGGGAACATGGCCATTTTGGAAACCATCTTTTGAAGATGTGTGTGTGTGTGTGTGT 663
Db 509 TACTGGGCTTCTGGCCATTTTGGGATGCACTCTGCAAGACTGTCTATGCTATGCACTACT 568
Qy 664 ATAACATGTTTCAACAGCATATTCACCTCTGACCATGATGTGTGTGTGTGTGTGTGTGT 723
Db 569 ACAAATGTTTACAGCACTTTTACTCTGACCGCATGAGCGTATGATGTGTGTGTGTGT 628
Qy 724 TCTGCCACCTGTCAAGGCTTAGATTTCCGTACTCCCGGAAATGCCAAATTTATCAATG 783
Db 629 TCTGCCACCTTCTCCGTCGCTTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 688
Qy 784 TCTGCAACTGTATCTCTTTCAGCCATTTGTCTTCTGTGTGTGTGTGTGTGTGTGTGTGT 843
Db 689 TGGCCATATGGGCTTGGCTTCAAGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 748
Qy 844 AATAACAGGCAAGGTTCCATGATGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 903
Db 749 AAGTGGGAAGATGAAGAGATCGAGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 808
Qy 904 AAAACCTGTGGAAGATCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 963
Db 809 GCCCTGTATTGGCCATCTGCAATCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCT 868
```

QY 964 CCGTGTGCTATGACGTATGATCTTCGGCTCAAGAGTGTCCGATGCTCTCTGGCTCCA 1023
DB 869 CTGTCTGTACAGCCCTCATGATTCGACGACTTCGTGTGTCCTGTCTGCTTTCAGGCTCCC 928
QY 1024 AAGAAAGGACAGGAATCTTCGAAGGATCACCAGGATGGTGTGTGTGGTGTGTGT 1083
DB 929 GGGAGAAGGACCGAAACCTCGCGGTATCACTCGACTGGTGTGTGTGTGTGTGTGTGT 988
QY 1084 TCATCGTCTGTGGACTCCCATTTCAATTTAAGTATTAAGGCTTGTGTGTGTGTGTGTGT 1143
DB 989 TTGTGGGCTGTGTGGAGCGCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 1048
QY 1144 CAGAACTAGTTCAGAGCTGTTTCTTGGCACTTCGTCAATTCGTCTAGGTATCACAAACA 1203
DB 1049 CAGGTAGTGAGACTGCAGTTGCCATCTCGCGCTTCGACAGCCCTGGGCTATGTCAACA 1108
QY 1204 GCTGCCTCAACCCAGTCTCTTATGCAATTCGTGATGAAATCTTCAACAGCATGCTTCAGAG 1263
DB 1109 GTTGTCTCAATCCATCTCTATGCTTCTCTGATGAGAACTTCAAGGCTGCTTTAGAA 1168
QY 1264 AGTTCTGTATCCCAACTCTTCCAAATTCAGCAATTCAGCAATTCAGCAATTCAGCAATTCG 1318
DB 1169 AGTTCTGTGTGCTTTCATCCCTGACCGGAGATGAGGTTTCTGTATCGTGTGCG 1223

RESULT 4

US-11-136-527-684
; Sequence 684, Application US/11136527
; Publication No. US20050287570A1
; GENERAL INFORMATION:

; APPLICANT: Mounts, William M
; APPLICANT: Mounts, William M
; TITLE OF INVENTION: Probe Arrays For Expression Profiling of Rat Genes
; FILE REFERENCE: 031896-041000 (AM101086)
; CURRENT APPLICATION NUMBER: US/11/136,527
; CURRENT FILING DATE: 2005-05-25
; PRIOR APPLICATION NUMBER: US 60/574,294
; PRIOR FILING DATE: 2005-05-26
; NUMBER OF SEQ ID NOS: 362830
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 684
; LENGTH: 8372
; TYPE: DNA
; ORGANISM: Rattus norvegicus

US-11-136-527-684

Query Match 10.8%; Score 233; DB 7; Length 8372;

Best Local Similarity 56.4%; Pred. No. 4.3e-60;

Matches 513; Conservative 0; Mismatches 315; Indels 81; Gaps 1;

QY 491 TGTGATGTTCAGATACACCAAGATGAAGACTGCGCACCAATCTACATTTTCAACCTTGC 550
DB 5100 TGTCTCTACAGGCACACCAAGATGAAGACAGCTACCAATTTTACATATTTAATCTGCG 5159
QY 551 TCTGGCAGATGCTTACGACCACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 610
DB 5160 ACTGGCTGATACCTGCTGTGTGTAACACTGCGCTTCCAGGCGACAGACATCTACTGGG 5219
QY 611 AACATGCCATTTGGAACTCTTTCGAAGATAGTGTCTCCATAGATTTACTATAACAT 670
DB 5220 CTCTGGCCATTTGGGAATGCACTCTGCAAGACTGTCTATGCTATGCACTACTACACAT 5279
QY 671 GTTCACAGCATATTCACCTCTGCAACATGATGTTGATGCAATTCAGCTGTGCCA 730
DB 5280 GTTTCACAGCATTTTACTCTGACCGCATGAGCGTAGACCGCTATGTGGCTATCTGCCA 5339
QY 731 CCTGTCAAGGCTTATGATTTCCGTACTCCCGAATGCCAAATTTATCAATGTCTGCAA 790
DB 5340 CCTATCCGTGCTTGTATGTTTCGGACATCCAGAAAGCCCGAGCTGTAAATGTGGCCAT 5399
QY 791 CTGGATCTCTCTTCAGCCATTTGCTCTCTGTAATGTTTCATGGCTTACAAACAAA----- 845
DB 5400 ATGGCCCTGGCTTCAAGTGTGTGTTCTGTGTCATCATGGGTTCAGCAAGTGA 5459

QY 846 ----- 845
DB 5460 AGATGAAGGTCAAGTGGGTCTCTCTCCCTGACTCATTTAGTTTCCATGGTTCCTGTG 5519
QY 846 -----TACAGGCAAGGTTTCATAGATTTGATACATAACATTTCTCTCATCC 889
DB 5520 GTCCCTCTGACCCCATTTCTCTCTGCAGAGATCGAGTGCCTGGTGGAGATCCCTGCCCC 5579
QY 880 AACCTGGTACTGGGAAAACTCGTGAAGATCTGTGTTTTCATCTTCGCTTCATTTATGCC 949
DB 5580 TCAGGACTATTGGGGCCCTGTATTCCCATCTGCATCTCTCTTTTCTCTTCATCATCC 5639
QY 950 AGTGTCTCATCTACCGTGTGCTATGGAGTGTATGATCTTGGCCCTCAAGAGTGTCCGAT 1009
DB 5640 TGTGCTGATCATCTCTGTCTGCTCAGGCTCATGATTCGACACTTCGTGGTGTCCGTCT 5699
QY 1010 GCTCTCTGGCTCAAAAGAAAGGACAGGAATCTTCGAAGGATCACCAGGATGGTGTGCT 1069
DB 5700 GCTTTCAGGCTCCCGGAGAGGACCGAAACCTGCGGCTATCATCTCGACTGTGTGCTGT 5759
QY 1070 GGTGTGTGCTGTGTTTCATGCTGTGACTCCCATTTCAATTTACGTTTCATTTAAAGC 1129
DB 5760 AGTGTGTGCTGTGTTTGTGGCTGTGACGCTGTGACAGTGTGTGCTGCTGCTGCTCAAG 5819
QY 1130 CTGTGTTACATCCAGAACTACGTTCCAGACTGTTTCTTGGCACTTCTGCAATGCTCT 1189
DB 5820 ACTGGGTGTTCAGCCAGGTAGTGAGACTGCGACTTCGCATCTTCGACAGCCCT 5879
QY 1190 AGGTTACACAAACAGCTGCTCAACCCAGTCTCTTTATGCAATTTCTGGATGAAATCTCAA 1249
DB 5880 GGGCTATGTCAACAGTGTCTCAATCCCATCTCTATGCTTCTCTGGATGAGAACTCAA 5939
QY 1250 AGCATGCTTCAGAGAGTCTGTATCCCAACCTCTTCCAACTGATGAGCAACAAATCTCAC 1309
DB 5940 GGCCTGCTTTAGAAAGTCTGCTGTCTTCATCCCTGACCGGAGATGACAGGTTTCTGA 5999
QY 1310 TCGAATTCG 1318
DB 6000 TCGTGTGCG 6008

RESULT 5

US-11-136-527-3819
; Sequence 3819, Application US/11136527
; Publication No. US20050287570A1
; GENERAL INFORMATION:

; APPLICANT: Wyeth
; APPLICANT: Mounts, William M
; TITLE OF INVENTION: Probe Arrays For Expression Profiling of Rat Genes
; FILE REFERENCE: 031896-041000 (AM101086)
; CURRENT APPLICATION NUMBER: US/11/136,527
; CURRENT FILING DATE: 2005-05-25
; PRIOR APPLICATION NUMBER: US 60/574,294
; PRIOR FILING DATE: 2005-05-26
; NUMBER OF SEQ ID NOS: 362830
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 3819
; LENGTH: 2116
; TYPE: DNA
; ORGANISM: Rattus norvegicus

US-11-136-527-3819

Query Match 9.1%; Score 197.8; DB 7; Length 2116;

Best Local Similarity 53.2%; Pred. No. 9.7e-50;

Matches 443; Conservative 0; Mismatches 387; Indels 3; Gaps 1;

QY 430 TCATGGCCCTCTACTCCATCGTGTGGTGGGCTCTTCGGAACCTTCCTGGTTCATGT 489
DB 504 TCACGTTTCTATCTGCTGTGGTGTGGGCTGTGGGCTGTGGGCTGTGGGCTGTGGGCT 563
QY 490 ATGTGATTTGATAGATACACCAAGATGAAGACTGCCCAACATCTACATTTTCAACCTTG 549

Db 564 ACCTCATCTCCGCTACGCCAAGATGAAACCAATCACCACATTTATCATCTCTCAACCTGG 623
Qy 550 CTCTGGCAGATGCTTAGCCACAGTACCTGCTGCCCTTCCAGAGTGTGAATTAACCTATGG 609
Db 624 CCATCGCAGATGAATCTCTCATGTGGGCTGCCCTTCTTGGCCATCGAGTGGCGCTGG 683
Qy 610 GAACATGGCCATTTGGCAACCATCTTTGCAAGATAGTATCTCCATAGATTAATATTAACA 669
Db 684 TCCATGGCCCTTTTGGCAGGCCATCTGCGGGTGGTCACTGTGTGACGGTATCAACC 743
Qy 670 TGTTCACAGCATATTAACCTCTGCACATGAGTGTGATCGATATCAATTCAGTCTGCC 729
Db 744 AGTTACACAGTATCTTCTGCTTACGGTCAATGAGCATCGACCGTTACTTGGCCGTGGTCC 803
Qy 730 ACCCTGTCAAGCCCTTAGATTTCCGTACTCCCGAAATGCCAAATTAATCAATGCTTGCA 789
Db 804 ACCCCATTAAGTCAGCCAAATGGAGCGACCCCGGACAGCCAAAGATGATCAACGTGGGTG 863
Qy 790 ACTGGATCTCTCTTCAGCCATTGCTCTTCTGTAATGTTTCATGGCT---ACAAACAAAT 846
Db 864 TGTGGGTGTGCTCCCTGCTGTCAATTTTGGCCATCAATATACGCTGGCCCTCCGGAGCA 923
Qy 847 ACAGCAGAGTTCATAGATTTGATACATAATCTCTCAATCCAACTGTGCTACCTGGGAAA 906
Db 924 ACCAGTGGGTAGGACGAGCTGCACCATCACTGCGCGGGAATCCGGGGCATGGTACA 983
Qy 907 ACCTCGTGAAGATCTGTGTTTCAATCTTGGCTTCATATGCCAGTGTCTATCATATTACCG 966
Db 984 CGGGTTTCATTAATCTATGCTTCTATCTCTGGGTTCTTGGTACCCTTAACCATCATCTGTC 1043
Qy 967 TGTGCTATGAGTATGATCTTGGCCCTCAAGAGTGTCCGATGCTCTCTGGCTCCAAAG 1026
Db 1044 TCTGTACCTCTTCATCATATCAAGGTGAAGTCTCTGGGATCCGAGTGGGGTCTGCCA 1103
Qy 1027 AAAAGCAGAGAACTCTCGAAGGATCACAGAGTGTGCTGGTGGTGGCTGTGTTCA 1086
Db 1104 AGAGGAAAGTCAAGAGAAAGGTGACCCGAATGGTATCATCTGTGTGGCTGTCTTCA 1163
Qy 1087 TCGTCTGTGGACTCCCAATTCACATTTACGTATCATTAAGCCCTTGGTTACAATCCAG 1146
Db 1164 TCTTCTGTGCTGCCCTTCTATATCTTCAATGCTCTGCGTGTCTGTGGCCATCAGCC 1223
Qy 1147 AAATACGTTCCAGACTGTTTGGCACTTCTGCACTTCTGATGCTTAGTTTACACAAACAGCT 1206
Db 1224 CCACCCCTCGCCCTGAAGGCGATGTTGACTTTGTGGTTATCTCTACCTACGCCAACAGCT 1283
Qy 1207 GCCTCAACCCAGTCTCTTATGATTTCTGGATGAAACTTCAACGATGCTTC 1259
Db 1284 GGGCCACCCCATCTGTACGCCCTTCTTGTCCGACAACTTCAAGNAGAGCTTC 1336

RESULT 6

US-10-750-185-36071/c
; Sequence 36071, Application US/10750185
; Publication No. US20050260603A1
; GENERAL INFORMATION:
; APPLICANT: MMI GENOMICS, INC.
; APPLICANT: DENISE, Sue K.
; APPLICANT: KERP, Richard
; APPLICANT: ROSENFELD, David
; APPLICANT: HOLM, Tom
; APPLICANT: BATES, Stephen
; APPLICANT: FANTIN, Dennis
; TITLE OF INVENTION: COMPOSITIONS FOR INFERRING BOVINE TRAITS
; FILE REFERENCE: MM1100-2
; CURRENT APPLICATION NUMBER: US/10/750,185
; CURRENT FILING DATE: 2003-12-31
; PRIOR APPLICATION NUMBER: US 60/437,482
; PRIOR FILING DATE: 2002-12-31
; NUMBER OF SEQ ID NOS: 64922
; SOFTWARE: PatentIN version 3.1
; SEQ ID NO 36071
; LENGTH: 1685

; TYPE: DNA
; ORGANISM: Bovine 19866880675545
US-10-750-185-36071
Query Match 9.0%; Score 194.6; DB 6; Length 1685;
Best Local Similarity 51.4%; Pred. No. 7.9e-49; Indels 16; Gaps 3;
Matches 534; Conservative 0; Mismatches 489;
Qy 225 GCTGCCCCACGAAACGCCAGCAATTGCATGTATGCTTGGCGTACTCAAGTTGTCTCC-C 283
Db 1537 GAGCCGCCACCGGCCCATCAGCTGAGATGTTCCCAATAGGCACGCGCTCTCTCCCTC 1478
Qy 284 AGCACCAGACCCCGGTTCTTGGGTCAACTTGTGCCACTTAGATGGAACCTGTGCGACCC 343
Db 1477 CTCTCTAGCCCGACGAGCTGCGGCGAAGCGGCGGAGAGGCGGCCCGCGGGC 1418
Qy 344 ATGGGTCCGAACCGCACCAACCTGGCGGGAGAGACAGCTATGCCCTCCGACCGGAG 403
Db 1417 CGCGCTGTCAGACGGGATGGAAGAACCGGGGCGAAGACGCGTCCAGAACGGGACCTTGAG 1358
Qy 404 TCCCTCATGATCAAGGCCATCAGATCATGGCCCTCTACTCCATCGTGTGCTGGTGGG 463
Db 1357 CGAGGGCCAGGCGAGCTATCTCATCTCTTTCATCTACTCCGTGGTGTGCTGGTGGG 1298
Qy 464 GCTCTTCGGAACCTTCTCGTTCATGTATGTGATGTGATGATACACCAAGATGAAGACTGC 523
Db 1297 GCTCTGTGGAACTTCCATGTGTCTACGTGATCTCTGGCTACGCCAAGATGAAGACGCG 1238
Qy 524 CACCAACATCAATTTTCAACCTTGTCTGGCAGATGCTTAGCCACAGTACCTGCC 583
Db 1237 CACCAACATCAATCTCAACCTGGCCATCGCGGATGAGCTGCTCATGTCTCAGCGTGC 1178
Qy 584 CTTCCAGAGTGTGAATTTACCTAATGGGAACATGSCCAATTTGGAAACCATCTTTCAGAGAT 643
Db 1177 CTTCTCGTCACTTCCATGATTAATACATGTTTACCAGCATATTCACCTCTGACCAATAG 703
Qy 644 AGTGATCTCCATAGATTAATACATGTTTACCAGCATATTCACCTCTGACCAATAG 703
Db 1117 CGTGCTCAGCGTGGACCGAGTCAACATGTTTACCAGCATCTACTGTCTGACTGTGTAG 1058
Qy 704 TGTGTGATCGATATCGAGTCTGCGCACCTGTCAAGGCTTAGATTTCCGTACTCCCG 763
Db 1057 CGTGACCGCTACGTGCGCGTGGTGCACCCCATCAAGGCGCGACGCTACCGCGGCCAC 998
Qy 764 AAATGCCAAATTAATCAATGCTGCACTGATCTCTTCCAGCATATGCTTCTTCC--- 820
Db 997 CGTGCCCAAGTGGTGAATCTGGCGCTGTGGGTGCTGTGCTGTCTGCTATCTGCCCCAT 938
Qy 821 TGTAAATGTTATGGCTACAAACAAATACAGCAAGGTTTCCATAGATTTGTACACTAACAT 880
Db 937 CGTGGTCTTCTCGCGCACGGGGCCACAGCGACGGCGCTGCGCTGCAACATGCTCAT 878
Qy 881 CTCTCATCCAACTGGTACTGGGAAAACCTCGTGAAGATCTGTGTTTTCATCTTCCCTT 940
Db 877 GCCCGAGCCCGCCAGCGCTGGCTGGTGGGTTCGTGTTGTACACTTTTCTCATGGGCTT 818
Qy 941 CATTTATGCCAGTGTCTCATATTACCGTGTCTATGGAATGATGATCTTGGCTCAAGAG 1000
Db 817 CTTGCTGCCGTGCGGGCCATCTCTGTTGTGTAGTGTCTCATATGCGCAAAATGCGCAT 758
Qy 1001 TGTCCGATGCTCTCTGGCTCCAAAGAAAAGAGAGCAAGAACTCTCGAAGGATCACCAGAT 1060
Db 757 GGTGGCCCTCAAGCGCGCTGGCAGCAGCGCAAGCGCTCGGAGCGCAAGATCACCTGAT 698
Qy 1061 GGTGCTGGTGGTGGTGTGTTTCATCGTGTCTGGACTCCCATTCATTCATTTAGTGCAT 1120
Db 697 GGTGATGATGTTGGTGTGTTTGTCTCTGATGCTCTTCTATGTGTGTCAGCT 638
Qy 1121 CATTAAGCCCTTGGTTACAATCCAGAACTACGTTCCAGACTGTTTCTTCCGCACTTCTG 1180
Db 637 AGTCAACGTGTTCCGGGAGCAGGACGACCGCCAGGTGA-----GCCAGCTGTC 590
Qy 1181 CATTGCTCTAGGTTACAAACAGCTGCTCAACCCAGTCTTATGATTTCTGGATGA 1240

Db 589 GGT CAT CTC TCG GTT AC GGC AAC AG CTT GGG CCA ACC CAT CCT CTCT AG GGT CCT TTT CAGA 530

Qy 1241 AA ACTTCAAACGATGCTTC 1259

Db 529 CA ACTTCAAGGGCTCTTTT 511

RESULT 7

```

US-10-750-623-36071/c
; Sequence 36071, Application US/10750623
; Publication NO. US20050287531A1
; GENERAL INFORMATION:
; APPLICANT: MMI GENOMICS, INC.
; APPLICANT: Denise, Sue K.
; APPLICANT: KERR, Richard
; APPLICANT: ROSENFELD, David
; APPLICANT: HOLM, Tom
; APPLICANT: BATES, Stephen
; APPLICANT: FANTIN, Dennis
; TITLE OF INVENTION: METHODS AND SYSTEMS FOR INFERRING BOVINE TRAITS
; FILE REFERENCE: MM1100-1
; CURRENT APPLICATION NUMBER: US/10750,623
; CURRENT FILING DATE: 2003-12-31
; PRIOR APPLICATION NUMBER: US 60/437,482
; PRIOR FILING DATE: 2002-12-31
; NUMBER OF SEQ ID NOS: 64922
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 36071
; LENGTH: 1685
; TYPE: DNA
; ORGANISM: Bovine
US-10-750-623-36071

```

Query Match	9.0%;	Score 194.6;	DB 6;	Length 1685;
Best Local Similarity	51.4%;	Pred. No. 7.9e-49;		
Matches 534;	Conservative 0;	Mismatches 489;	Indels 16;	Gaps 3;
Qy	225	GCTGCCCCACGACGCGCAGCAATTCGACTCATGCTCTGGCGTACTCAAGTTGCTCC-C 283		
Db	1537	GCAGCCCAACGGGCCCCCATCAGCTGAGATGTTCCCNATGCGACCGCTCCTCTCCCTC 1478		
Qy	284	AGCACCCAGCCCGGTTCTCTGGGTCAACTTCTCCACATTAGATGGCAACCTGTCCGACCC 343		
Db	1477	CTCTCTAGCCCAAGCCAGCCAGCCAGCTGGCGGAAGGGCGGCGACAGGGGCCCCCGGGC 1418		
Qy	344	ATGCGGTCCGAACCGCAACCACTTGGGGGAGAGACAGCCTATGCCCTCCGACGGGAG 403		
Db	1417	CGGCGCTGCACACGGGATGGAAGAAACGGGGCGAAACGCGTCCAGAACGGGACCTTGAG 1358		
Qy	404	TCCCTCCATGATCAGGGCCATCAGATCATGGCCCTCTACTCCATCGTGTGGGTGGTGG 463		
Db	1357	CGAGGGCGAGGCGAGCGCTATCCTCATCTCTTTCATCTACTCCGTGGTGTGCTCTGGTGG 1298		
Qy	464	GCTCTTCGGAACTTCTCTGGTCATGTATGTGATTGT CAGATACACCAAGATGAAGACTGC 523		
Db	1297	GCTCTGTGGNACTCCATGTGTCATCTAGTGTATCCTGGCTAGCCCAAGATGAAGACGG 1238		
Qy	524	CACCAACATCTACATTTTCAACCTTGTCTGGCAGATGCCCTTAGCCACAGTACCTGCC 583		
Db	1237	CACCAACATCTACATCTCAACCTGGCCATCGCGATGAGCTGTCTATGCTCAGCGTGCC 1178		
Qy	584	CTTCCAGATGTGAATTACCTAATGGGNAACATGGCCATTTTGGAAACCATCTTTTGAAGAT 643		
Db	1177	CTTCTCTGGTCACTCCCATTTGCTTTCGCGCATGTGGCCCTTGGCGCGCTACTCTCGCGCT 1118		
Qy	644	AGTCATCTCCATAGATTACTATAATGTTACAGCAGCATATTCACCTCTCGCACCATGAG 703		
Db	1117	CGTGCTCAGCGTGAACGAGTCAACATGTTCAACAGCATCTACTGTCTGACTGTGCTTAG 1058		
Qy	704	TGTTGATCGATACATTCGAGTCTGCCACCTGTCAAGGCCCTTAGATTTTCGTACTCCCG 763		
Db	1057	CGTGAACCGCTACTGTGGCCGTGGTGCACCCCATCAAGGCCGCAAGCTACCGCCGCGCCAC 998		

764	Qy	AAATGCAAAATATCAATGTCGCAACTGATCTCTCTTCAGCCATTGGTCTTCC---	820
997	Db	CGTGGCCAAAGTGGTGAATCTGGCGCTGTGGGTGCTGTGCTCGTCAATCTCGCCCAT	938
821	Qy	TGTAATGTTTCATGGCTACAACAAAATACAGGCAAGTTCCATAGATTGTACACTAACATT	880
937	Db	CGTGGTCTTCTCGCACGCGCGCCAACACGACGCGCACGGTGGCCTGCAACATGCTCAT	878
881	Qy	CTCTCATCAAACTGTGTACTGGGAAAACTCGTGAAGATCTGTGTTTTTCATCTTCGCCCTT	940
877	Db	GCCCGAGCCGCCACAGCGTGGCTGTGGTGGCTTCGTGTGTACACATTTCTCATGGCTT	818
941	Qy	CATTATGCCAGTGCTCATCATTAACCGTGTCTATGCACTGATGATCTTGGCCTCAAGAG	1000
817	Db	CCTGCTGCCGTGGGGCCATCTGCTGTGTGCTACGTGCTCATCATCGCAAAATGCGCAT	758
1001	Qy	TGTCGCGATGCTCTTGGGCTCCAAAGAAAGGACAGGAATCTTCGAAGGATCACCAGGAT	1060
757	Db	GGTGGCCCTCAAGGCGGGCTGGCAGCAGGCGCAAGCGCTCGGAGCGCAAGATCACCCCTGAT	698
1061	Qy	GGTGTGGTGGTGGCTGTGTTTCATCTGCTGTGACTCCCATTCACATTTTACGTTCAT	1120
697	Db	GGTGATGATGGTGGTATGTGTGTTGTTCATCTGCTGGATGCCCTTCTATGTGTGGCAGCT	638
1121	Qy	CATTAAGCCCTTGGTTACAATCCAGAAACTAGTTCACAGATGTTTCTTTGGCACTTCTG	1180
637	Db	AGTCAACGTGTTCCGGAGCAGGACGAGCCACGGTGA-----GCCAGCTGTC	590
1181	Qy	CATTGCTCTAGGTTACAAACACAGTCCCTCAACCCAGTCCCTTTATGCAATTTCTGATGA	1240
589	Db	GGTCATCCTCGGTTACGCCAACACAGCTGCGCAACCCCATCCTCTACGGCTTCCTTTCAGA	530
1241	Qy	AAACTTCAACAGATGCTTC	1259
529	Db	CAACTTCAAGCGCTCTTTC	511

RESULT 8

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RES001 8
US-10-995-561-321
; Sequence 321, Application US/10995561
; Publication No. US2005072054A1
; GENERAL INFORMATION:
; APPLICANT: CARGILL, Michele et al.
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; TITLE OF INVENTION: CARDIOVASCULAR DISORDERS AND DRUG RESPONSE, METHODS OF
; TITLE OF INVENTION: DETECTION AND USES THEREOF
; FILE REFERENCE: CL001559
; CURRENT APPLICATION NUMBER: US/10/995,561
; CURRENT FILING DATE: 2004-11-24
; NUMBER OF SEQ ID NOS: 85702
; SOFTWARE: Fast-SEQ for Windows Version 4.0
; SEQ ID NO 321
; LENGTH: 1238
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-995-561-321

```

	Query Match	8.7%; Score 187.6; DB 6; Length 1238;
	Best Local Similarity	51.9%; Pred. No. 8.8e-47;
	Matches 434; Conservative	8; Mismatches 382; Indels 12; Gaps 1
Qy	424 TCACGATCATGGCCCTCTACTCCATCGTGGTGGGGGCTCTTCGGAACACTTCCCTGG	483
Db	214 TCGCTATCCAGTGCATCTACCGCTGGTGTGCTGGTGGGCTGGTGGSCAAGCCCTGG	273
Qy	484 TCATGTATGTGATTGTCCAGATACACCAAGATGAAGACTGCCACCAACTCTACATTTCA	543
Db	274 TCATCTTCGTGATCTCTTCGCTACGCCAAGATGAAGACGGCTACCAACATCTACCTGCTCA	333
Qy	544 ACCTTGCTCTGGCAGATGCCTTAGCCACCAAGTACCCCTGCGCTCCAGAGTGTGAATACC	603
Db	334 ACCTGGCGGTAGCCGACGAGCTCTTCATGCTGAGCGTGCCTTCGTGGCGCTCGTCGGCGG	393

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Qy 604 TAATGGGAACATGGCCATTTTGGAAACCATCTTTTGAAGATAGTGTCTCATAGATTACT 663
Db 394 CCCTGGCGCACTGGCCCTTGGCTCCGTGCTGTGTCGGCGGGTGTCTCAGCGTGCAGCGGC 453
Qy 664 ATAACTGTTTACACAGCATATTCACCTCTGACCATAGTGTGTGATGATGATGATGATG 723
Db 454 TCAACATGTTTACACAGCGTCTTCTGCTCACCCTGTCTCAGCGTGTGATGATGATGATG 513
Qy 724 TCTGCCACCTGTCAAGCCCTTATGATTTCCGTACTTCCCGAAATGCGCAAAATATCAATG 783
Db 514 TGGTGCACCTCTGCGCGCGCGACCTACCGGCGCGCGAGCGTGGCCAAAGCTCATCAACC 573
Qy 784 TCTGCAACTGATCTCTCTTTCAGCCATTTGCTTCTGTAATGTTTCAATGGCTACAAACA 843
Db 574 TGGCGGTGTGGCTGGCATCCCTGTGTGCTACTCTCCCATCGCCATCTTTCGACAGACCA 633
Qy 844 AATACAGGCAAGGTTTCCATAGATTGTATCACTAAATTTCTCTCATFCCAACTGGTGGG 903
Db 634 GACCGGCTCGCGCGCGCGAGCGCTGCGCTGCAACCTGCAAGTGGCCACACCGCGCTGGT 693
Qy 904 AAACCTCGTGAAGATCTGTGTTTTCATCTTGGCTTTCATTTATGCGAGTGTCTCATCTTA 963
Db 694 CGGCAGTGTTCGTGGTCTACACTTTTCTGCTGGGCTTCTGCTGCGCGCTGCTGCGCCAT 753
Qy 964 CCGTGTCTATGGACTGATGATCTTGGCCCTCAAGAGTGTCCGATGCTCTCTGGCTCCA 1023
Db 754 GYCTGTGCTACTGCTCATCTGCGGCAAGATGCGCGCGTGGCCCTGTGCGMKGCTGGC 813
Qy 1024 AAGAAAAGGACAGGAATCTTCGAAGGATCACAGGATGGTGTGCTGGTGGTGGTGTGT 1083
Db 814 AGCAGCGCAGCGCTCGGAGAGAAATACACAGGCTGGTGTGCTGATGCTGGTGGTGTCT 873
Qy 1084 TCATGCTGTGTGAGTCCCATTCACATTTACGTCATCATTTAAAGCCTTGGTTACATTC 1143
Db 874 TTGTGCTCTGCTGGATGCTTTTACGCTGTGTCAGCTGCTGTAACCTCTKCTGTGACAGC 933
Qy 1144 CAGAACTACGTTCCAGACTGTTTCTTGGCACTTCTGATGCTCTAGGTTTACACAACA 1203
Db 934 TTGATGCCACCGTCAAC-----CACGTGCTCCTTATCTTAGCTATGCCAAYA 981
Qy 1204 GCTGCTCAACCCAGTCTTTTATGCAATTTCTGGATGAAACTTCAAAACGATGCTTC 1259
Db 982 GCTGGCCAAACCCVATTCTCTATGGYTTCTCTATGGYTTCTCTCCGACAACTTCGCGGATYCTTC 1037

RESULT 9
US-10-995-561-320
; Sequence 320, Application US/10995561
; Publication No. US20050272054A1
; GENERAL INFORMATION:
; APPLICANT: CARGILL, Michele et al.
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; TITLE OF INVENTION: CARDIOVASCULAR DISORDERS AND DRUG RESPONSE, METHODS OF
; TITLE OF INVENTION: DETECTION AND USES THEREOF
; FILE REFERENCE: CL001559
; CURRENT APPLICATION NUMBER: US/10/995,561
; CURRENT FILING DATE: 2004-11-24
; NUMBER OF SEQ ID NOS: 85702
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 320
; LENGTH: 1498
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-995-561-320

Query Match 8.7%; Score 187.6; DB 6; Length 1498;
Best Local Similarity 51.9%; Pred. No. 1e-46;
Matches 434; Conservative 8; Mismatches 382; Indels 12; Gaps 1;

Qy 424 TCACGATCATGCCCTCTACTCCATCGTGTGGTGGGCTCTTCGGAACCTTCTCGG 483
Db 214 TCGCTATCCAGTGCATCTACGGCTGGTGTGCTGTGGGCTGGTGGGCAAGCGCTGG 273
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Qy 484 TCATGATGTGATTTGTTCAGATACACCAAGATGAAGACTGCGCAACAACATCTACATTTTCA 543
Db 274 TCATCTTGTGTGATCTTTCGCTAGCCCAAGATGAAGACGGCTAGCAMCATCTACCTGTCTCA 333
Qy 544 ACCTTGTCTGGCAGATGCTTAGCCACCAAGTACCTTCCCTTCCAGAGTGTGAATTTACC 603
Db 334 ACCTGGCCGTAGCCGACGAGCTCTTATGCTGAGCGTGCCTTTCGTTGGCCTCTGTCGGCCG 393
Qy 604 TAATGGGAACATGGCCATTTTGGAAACCATCTTTTGAAGATAGTGTCTCATAGATTACT 663
Db 394 CCCTGGCGCACTGGCCCTTGGCTCCGTGCTGTGTCGGCGGGTGTCTCAGCGTGCAGCGGC 453
Qy 664 ATAACTGTTTACACAGCATATTCACCTCTGACCATAGTGTGTGATGATGATGATGATG 723
Db 454 TCAACATGTTTACACAGCGTCTTCTGCTCACCCTGTCTCAGCGTGTGATGATGATGATG 513
Qy 724 TCTGCCACCTGTCAAGCCCTTATGATTTCCGTACTTCCCGAAATGCGCAAAATATCAATG 783
Db 514 TGGTGCACCTCTGCGCGCGCGACCTACCGGCGCGCGAGCGTGGCCAAAGCTCATCAACC 573
Qy 784 TCTGCAACTGATCTCTCTTTCAGCCATTTGCTTCTGTAATGTTTCAATGGCTACAAACA 843
Db 574 TGGCGGTGTGGCTGGCATCCCTGTGTGCTACTCTCCCATCGCCATCTTTCGACAGACCA 633
Qy 844 AATACAGGCAAGGTTTCCATAGATTGTATCACTAAATTTCTCTCATFCCAACTGGTGGG 903
Db 634 GACCGGCTCGCGCGCGCGAGCGCTGCGCTGCAACCTGCAAGTGGCCACACCGCGCTGGT 693
Qy 904 AAACCTCGTGAAGATCTGTGTTTTCATCTTGGCTTTCATTTATGCGAGTGTCTCATCTTA 963
Db 694 CGGCAGTGTTCGTGGTCTACACTTTTCTGCTGGGCTTCTGCTGCGCGCTGCTGCGCCAT 753
Qy 964 CCGTGTCTATGGACTGATGATCTTGGCCCTCAAGAGTGTCCGATGCTCTCTGGCTCCA 1023
Db 754 GYCTGTGCTACTGCTCATCTGCGGCAAGATGCGCGCGTGGCCCTGTGCGMKGCTGGC 813
Qy 1024 AAGAAAAGGACAGGAATCTTCGAAGGATCACAGGATGGTGTGCTGGTGGTGGTGTGT 1083
Db 814 AGCAGCGCAGCGCTCGGAGAGAAATACACAGGCTGGTGTGCTGATGCTGGTGGTGTCT 873
Qy 1084 TCATGCTGTGTGAGTCCCATTCACATTTACGTCATCATTTAAAGCCTTGGTTACATTC 1143
Db 874 TTGTGCTCTGCTGGATGCTTTTACGCTGTGTCAGCTGCTGTAACCTCTKCTGTGACAGC 933
Qy 1144 CAGAACTACGTTCCAGACTGTTTCTTGGCACTTCTGATGCTCTAGGTTTACACAACA 1203
Db 934 TTGATGCCACCGTCAAC-----CACGTGCTCCTTATCTTAGCTATGCCAAYA 981
Qy 1204 GCTGCTCAACCCAGTCTTTTATGCAATTTCTGGATGAAACTTCAAAACGATGCTTC 1259
Db 982 GCTGGCCAAACCCVATTCTCTATGGYTTCTCTATGGYTTCTCTCCGACAACTTCGCGGATYCTTC 1037

RESULT 10
US-10-995-561-13298
; Sequence 13298, Application US/10995561
; Publication No. US20050272054A1
; GENERAL INFORMATION:
; APPLICANT: CARGILL, Michele et al.
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; TITLE OF INVENTION: CARDIOVASCULAR DISORDERS AND DRUG RESPONSE, METHODS OF
; TITLE OF INVENTION: DETECTION AND USES THEREOF
; FILE REFERENCE: CL001559
; CURRENT APPLICATION NUMBER: US/10/995,561
; CURRENT FILING DATE: 2004-11-24
; NUMBER OF SEQ ID NOS: 85702
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 13298
; LENGTH: 86131
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-995-561-13298
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Query Match      8.7%; Score 187.6; DB 6; Length 86131;
Best Local Similarity 51.9%; Pred. No. 2.1e-45;
Matches 434; Conservative 8; Mismatches 382; Indels 12; Gaps 1;

QY 424 TCACGATCATGGCCCTCTACTCCATCGTGTGGGTGGGGCTCTTCGGAACCTTCCTGG 483
DB 6215 TCGCTATCCAGTGCATCTAGCGCTGTGTGCTGTGGGTGGGGCTGTGGCAACGCCCTGG 6274

QY 484 TCATGTATGTGATGTTCAGATACACCAAGATGAAGACTGCGACCAACATCTACATTTCA 543
DB 6275 TCATCTTCGTGTGATCTTCGTGTAGCCCAAGATGAAGACGGCTACCAACATCTACCTCTCA 6334

QY 544 ACCTTGCTCTGGCAGATGCCCTTAGCCACCAAGTACCCTGCGCCCTTCAGAGTGTGAATTACC 603
DB 6335 ACCTGGCCGTAGCCGACGAGCTCTTATGCTGAGCGTGGCCCTTCGTGGCCGTGTGGCCG 6394

QY 604 TAAATGGGAACATGGCCATTTGGAAACCATCTTTTGCAGATAGTGATCTCCATAGATTACT 663
DB 6395 CCCTGGCCACTGGCCCTTCGGCTCGTGTGCGCGGGTGTCTCAGCGTCGACGGCC 6454

QY 664 ATAAATGTTTACACGATATTCACCCCTGTGCACCAATGAGTGTGTGATTCGATATTCGAG 723
DB 6455 TCAACATGTTTACACGCTCTTCTGTCTCACCGTGTCTCAGCGTGGACCGCTACGTGGCCG 6514

QY 724 TCTGCCACCCCTGTCAAGGCTTAGATTTCGTACTCCCGAAATGCCAAATTTATCAATG 783
DB 6515 TGGTGCACCTCTGCGCGGGCGGACCTACCGGGGCCACGCGTGGCCAAAGCTCATCAACC 6574

QY 784 TCTGCAACTGGATTCCTCTTCAGCCATTTGGTCTTCCTGTAAATGTTTCATGGCTTACAACA 843
DB 6575 TGGGCGTGTGGCTGGCATCCCTGTTGTCATCTCTCCCATCGCCATCTTCGCGACACCA 6634

QY 844 AATACAGGCAAGTTTCCATAGATTGTACATAACATTTCTCATCAACCTGGTACTGGG 903
DB 6635 GACCGGCTCGCGCGGGCCAGCGCGTGGCCTTGCAACCTGCAAGTGGCCACACCCCGGCTGT 6694

QY 904 AAAACCTCGTGAAGATCTGTGTTTTCATCTTGCGCTTCATTATGCCAGTGCATCATTTA 963
DB 6695 CGGCACTGTTTGTGGTGTACACTTTCCTGTGGGCTTCCTGTGCGGCTGTGGCCATTTG 6754

QY 964 CCGTGTGCTATGACTGATGATCTTGGCGCTCAAGAGTGTCCGATGCTCTCTGGCTCCA 1023
DB 6755 GYCTGTGCTACCTGCTCATCTGTGGCAAGATGCGCGCGTGGCCCTGCGMKGCTGCG 6814

QY 1024 AAGAAAAGACAGGAATCTTCGAAGATCACAGGATGTGTGCTGTGGTGGTGTGTGT 1083
DB 6815 AGCAGCGCAGGCGCTCGGAGAAGAAAATCACCAAGGCTGGTGTGTGTGTGTGTGTCT 6874

QY 1084 TCATCGCTCTGCGACTCCCATTCACATTTACGTATCATTTAAAGCTTTGTTTACAAATCC 1143
DB 6875 TTGTGCTCTGCTGGATGCGCTTCTACGTGTGAGCTGTGTAACTCTKTCGTGACAGCC 6934

QY 1144 CAGAAACTAGTTCACAGACTGTTTCTTGGCACTTCTGCAATTTGCTTAGGTTCACAAACA 1203
DB 6935 TTGATGCCACCGTCAAC-----CACGTGTCCCTTATCTCTYAGCTATGCCAAYA 6982

QY 1204 GCTGCTCAACCCAGTCTTTATGCAATTTCTGATGAAACTTCAAACGATGCTTC 1259
DB 6983 GCTGCGCCAAACCCYATTTCTATGGYTTCTCTCCGACAACTTCGCGCGATTCCTTC 7038
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RESULT 11

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US-11-136-527-2101
; Sequence 2101, Application US/11136527
; Publication No. US20050287570A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William M
; TITLE OF INVENTION: Probe Arrays For Expression Profiling of Rat Genes
; FILE REFERENCE: 031896-04100 (AM101086)
; CURRENT APPLICATION NUMBER: US/11/136,527
; CURRENT FILING DATE: 2005-05-25
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; PRIOR APPLICATION NUMBER: US 60/574,294
; PRIOR FILING DATE: 2005-05-26
; NUMBER OF SEQ ID NOS: 362830
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 2101
; LENGTH: 3635
; TYPE: DNA
; ORGANISM: Rattus norvegicus
US-11-136-527-2101
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Query Match 8.2%; Score 177; DB 7; Length 3635;

Best Local Similarity 52.6%; Pred. No. 3.5e-43;

Matches 443; Conservative 0; Mismatches 385; Indels 15; Gaps 2;

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QY 420 GCCATCAGATCATGGCCCTCTACTCCATCGTGTGGGTGGGGCTCTTCGGAACCTTC 479
DB 316 GCCATTCATCTCTTTTCACTACTCCGTGGTATGCTTGGTGGGACTGTGTGGGAACCTCC 375

QY 480 CTGGTTCATGTATGTGATTGTTCAGATACACCAAGATGAAGACTGCCACCAACATCTACATT 539
DB 376 ATGGTTCATTTAGTGTGATCCTGCGCTACGCCAAGATGAAGACCGCAACCAACATCTACATT 435

QY 540 TTCAACCTTGTCTCTGGCAGATGCCCTTAGCCACAGTACCTGCGCTTCAGAGTGTGAAT 599
DB 436 CTAAACCTGGCCATTTGCTGATGAGCTGTCTCATGCTCAGCGTGGCCCTTTCTGGTCACTCC 495

QY 600 TACCTAATGGGAACATGGCCATTTGGAACCATCTTTGCAAGATAGTGATCTCCATAGAT 659
DB 496 AGCGTGTGTGGCCACTGGCCCTTTGGCGGCTACTTTGGCGCTGTGTGCTCAGCGTGAAT 555

QY 660 TACTATAACATGTTTCAACAGCATATTTACCCCTCTGCACCATCAGTGTGTGATCGATACATT 719
DB 556 CGAGTCAACATGTTTCAACAGCATCTACTGTCTGTGCTGTGCTGTGAGTGTGACCGCTATGTG 615

QY 720 GAGCTCTGCCACCTGTCTAAGSCCTTAGATTTCGGTACTCCCGGAAATGCCAAATATATC 779
DB 616 GCTGTGWMGCAACCCGATCAAGGCGCGCTACCGTGGGCCACCTGTGGCCAAAGTAGTG 675

QY 780 AATGTCCTGCACTGATCTCTCTTTCAGCCATTTGGTCTTCTCCGTGAATGTTTCATGGC--T 836
DB 676 AACCTGGGCGTGTGGGTGCTGTGGTACTGTGGTATCTTGGCCCATCGTGTCTTCTCACGC 735

QY 837 ACACAAATAATACAGCAAGGTTTCCATAGATTGTACACTAAACATTTCTTCATCCAACTGG 896
DB 736 ACCGAGCCAAACAGCGATGGCAGCGTGGCTGCAACATGCTCATGCCGAGCCGCCAG 795

QY 897 TACTGGGAAAACCTCGTGAAGATCTGTGTTTTCATCTTCGCTTCATTTATGCGAGTGTCTC 956
DB 796 CGCTGTTGGTGGGCTTCGTCTTATACACATTTCTCATGGGCTTCCTGCTGCTGTGCGG 855

QY 957 ATCATTTACCGTGTGTGATGGACTGATGATCTTGGCGCTCAAGAGTGTCCGATGCTCTCT 1016
DB 856 GCCATCTGCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 915

QY 1017 GGCTCCAAAGAAAAGGACAGGAATCTTCGAAGGATCACGAGGATGGTGTGGTGGTGGTGG 1076
DB 916 GGCCTGCGACGACGCAAGCGCTCAGAGCGCAAGATCACTCTAATGGTGTGTGTGTGGTGGT 975

QY 1077 GCTGTGTTTCATGCTGTCTGGAATCTCCCATTTACATTTAGTGTATCAATTTAAAGCCTTGGTT 1136
DB 976 ATGTTTTTTGTCATCTGCTGGATGCTTTTCTACGTGGTACAGTGTGTGTGTGTGTGTGTGT 1035

QY 1137 ACAATCCCAGAAATCTACGTTCCAGACTGTTTCTTGGCACTCTGCAATGCTCTTAGGTATAC 1196
DB 1036 GAGCAAGACGACGCCACGGT-----GAGCAGTTGTGTGTGTGTGTGTGTGTGTGTGTGT 1083

QY 1197 ACAAAACAGCTGCTCAACCCAGTCCCTTTATGCAATTTCTGGATGAAAACCTTCAAACGATGC 1256
DB 1084 GCCAATAGTGTGCGCAACCCCATCTCTACGCTTCTCTGTGCGACAACTTCAAGCGCTCT 1143

QY 1257 TTC 1259
DB 1144 TTC 1146
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Db 934 TGGCTGCCTTTCTTCAATGTCACAAATGTCACATGTCGCTTTCACACTGCGCGAGAACCC 993
 QY 1155 TTCCAGACATGTTTCTTTGGCAGCTTCTGCAATGCTCTAGGTTTACAAACAGCTGCTCAAC 1214
 Db 994 ACATCTGCGCGCTCTATTTCTTTGTGGTGGTCTATCTTATGCAATAGCTGTGCCAAC 1053
 QY 1215 CCAGTCCCTTTATGCAATTTCTGATGAAACCTTTCAACGATGCTTCCAGAGTT 1267
 Db 1054 CCCCTGCTCTACGGCTTTCTCTCGGACAACTTCCGCCAGAGCTTCCCGAAGGT 1106
 RESULT 13
 US-11-136-527-3742
 ; Sequence 3742, Application US/11136527
 ; Publication No. US20050287570A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Wyeth
 ; APPLICANT: Mounts, William M
 ; TITLE OF INVENTION: Probe Arrays For Expression Profiling of Rat Genes
 ; FILE REFERENCE: 031896-041000 (AM101086)
 ; CURRENT APPLICATION NUMBER: US/11/136,527
 ; CURRENT FILING DATE: 2005-05-25
 ; PRIOR APPLICATION NUMBER: US 60/574,294
 ; PRIOR FILING DATE: 2005-05-26
 ; NUMBER OF SEQ ID NOS: 362830
 ; SOFTWARE: PatentIn version 3.2
 ; SEQ ID NO 3742
 ; LENGTH: 1560
 ; TYPE: DNA
 ; ORGANISM: Rattus norvegicus
 ; US-11-136-527-3742
 Query Match 7.3%; Score 158.8; DB 7; Length 1560;
 Best Local Similarity 50.5%; Pred. No. 7.3e-38;
 Matches 422; Conservative 0; Mismatches 402; Indels 12; Gaps 1;
 QY 424 TCACGATCATGCGCTCTACTCCATCGTGTGGTGGTGGGCTCTTCGGAACTTCTCTGG 483
 Db 341 TAACTATCCAGTGCATCTATGCGCTCGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 400
 QY 484 TCATGTATGTGATTGTTCAGATACCAAGATGACAGCTGCCACCAACATCTACATTTTCA 543
 Db 401 TCATATTCGTGATCTCTACGCTATGCCAAATGAAGACAGCACCACCAATCTACCTGTCA 460
 QY 544 ACCTTGCTCTGCGAGATGCTTTAGCCACAGTACCTCTGCCCTTCCAGAGTGTGAATTACC 603
 Db 461 ACCTGCGCTGCTGATGAGCTTCTCATGCTCAGTGTGCCATTTGTGCGCTCGCGGCTG 520
 QY 604 TAATGGGACATGCGCATTTTGGAAACATCTTTTGAAGATAGTGTATCTCCATAGATTTACT 663
 Db 521 CCTGCGCCACTGCGCGTGTGGGGCGGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 580
 QY 664 ATAAATGTTTACAGCATATTTTCACTCTGCAACATGAGTGTGTGTGTGTGTGTGTGTGTGT 723
 Db 581 TTAACATGTTTACAGATGCTTCTGCGCTTCAAGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 640
 QY 724 TCTGCCACCTGTCAAGGCTTTAGATTTTCCGTTTCTCCCGAAATGCCAAATTTATCAATG 783
 Db 641 TAGTGACCTCTGCGAGCTGCCACTACCGCGCGCCAGCGTGGCCAAAGTTAATCAACC 700
 QY 784 TCTGCAACTGGATCTCTCTTCAGCCATTTGCTTCTTGTGTGTGTGTGTGTGTGTGTGTGTGT 843
 Db 701 TGGAGTGTGGCTAGCATCTTGT 760
 QY 844 AATACAGGCAAGTTCATAGATTGTACACTAACATTTCTCTCATCCCAACCTGTGTGTGTGTGT 903
 Db 761 GGCCAGCTCTGCGGGGTGAGGCAAGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 820
 QY 904 AAAACCTCGTGAAGATCTGTGTTTTTTCATCTTTCGCTTTCATTTATGCGAGTGTCTCATFAT 963
 Db 821 CTGCACTCTTGT 880
 QY 964 CCGT 1023
 US-11-136-527-2159
 ; Sequence 2159, Application US/11136527
 ; Publication No. US20050287570A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Wyeth
 ; APPLICANT: Mounts, William M
 ; TITLE OF INVENTION: Probe Arrays For Expression Profiling of Rat Genes
 ; FILE REFERENCE: 031896-041000 (AM101086)
 ; CURRENT APPLICATION NUMBER: US/11/136,527
 ; CURRENT FILING DATE: 2005-05-25
 ; PRIOR APPLICATION NUMBER: US 60/574,294
 ; PRIOR FILING DATE: 2005-05-26
 ; NUMBER OF SEQ ID NOS: 362830
 ; SOFTWARE: PatentIn version 3.2
 ; SEQ ID NO 2159
 ; LENGTH: 1384
 ; TYPE: DNA
 ; ORGANISM: Rattus norvegicus
 ; US-11-136-527-2159
 Query Match 8.0%; Score 172.6; DB 7; Length 1384;
 Best Local Similarity 52.2%; Pred. No. 3.8e-42;
 Matches 435; Conservative 0; Mismatches 389; Indels 9; Gaps 2;
 QY 438 CTCATCTCCATCTGCTGCTGTGGGCTCTTCGGAACTTCTCTGTCATGTATGTGATT 497
 Db 280 CTCCTACCTGTTGTGTGCCCGTGGGACTGAGTGGAAATACACTGGTCAATTTATGTGGTG 339
 QY 498 GTCAGATACACCAAGATGAAGACTGCGCAACATCTACATTTTCAACCTTGTCTTGSCA 557
 Db 340 CTGGGACCGCCAAAGATGAAGACAGTATTACGTGTATCTCTGAACTTGGCGCTGGCT 399
 QY 558 GATGCGCTTAGCCACCAAGTACCTCGCTTCCAG--AGTGTGAATTA CTTAATGGGAACA 614
 Db 400 GAGCTATTATTTATGTTGGGACTTCTTCTTCTGGCCACGACGACGCGCTGCTCTCTTAC 459
 QY 615 TGGCCATTTGGAAACCATCTTTTCAAGATAGTGTATCTTCAATGATTTACTAATCATGTTTC 674
 Db 460 TGGCGCTTTCGCTCTCTTCTTGTGCGCTGGTCTGACACTGGATGGCATCAACGAGTTC 519
 QY 675 ACCAGCATATTCACCTCTGACCATGAGTGTGTATGATGATGATGATGATGATGATGATGATGAT 734
 Db 520 ACAGATATCTTCTGCTGTATGTCATGATGATGATGATGATGATGATGATGATGATGATGATGAT 579
 QY 735 GTCAGGCTTTAGATTTTCGTACTCTCCCGAAATGCGAAATTTATCAATGTCTGCAACTGG 794
 Db 580 CTCGCTCAGCGCGTGGGTGCGCCACGCGGTAGCCAGATGGCAGCGCGCGCTGTG 639
 QY 795 ATCTCTCTTCAGCATTTGCTTCTCTGTAATGTTTATGTTTATGTTTATGTTTATGTTTATGTTTAT 854
 Db 640 GTCTTTTTCGCTGCTCATGTCTCTGCGCGCTCTTGGTCTTCG-----CGAGTGTCCAGGAG 693
 QY 855 GGTTCATATGTTTACACTAAATCTCTCTCAACCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 914
 Db 694 GCTTGGGGACCTTGCAACCTGAGCTGGCAGAGCTGTGGGCTGTGGGCTGTGGGCTGTGGGCTGTGG 753
 QY 915 AAGATCTGTGTTTTTTCATCTTTCGCTTTTCAATTTATGCGAGTGTCTCATCATTTACCGTGTGCTAT 974
 Db 754 ATCACTTACAGCTGTGTTGGGCTTCTTGGGCGCTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 813
 QY 975 GGAATGATGATCTTGGCGCTTCAAGAGTGTCCGATGCTCTCTGCTTCCAAAGAAAGGAC 1034
 Db 814 CTGCTCATTTGTGTGTAAGGTGAGGCTGAGGCAATGCGGCTAGGCTCTCAAGGCGGAGG 873
 QY 1035 AGGAATCTTCAGAGATACAGAGTGTGCTGGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1094
 Db 874 CGCTCGAGCGGAGGTGATCTCGCATGGTGGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 933
 QY 1095 TGGACTCCCATTTCACTTTACGTTCATCATTTAAAGCCTTGTGTTTACAAATCCCAAGAACTACG 1154

Db 881 GATTATGTTACCTGCTTATCGTGGGCAAGATCGTGCTGTGGCCCTGCGGGCTGGCTGGC 940
Qy 1024 AAGAAAAGGACAGGAATCTTCGAAGGATCACAGGATGCTGTGGTGGTGGTGGTGGTGGT 1083
Db 941 AACAAAGGAGACCTCAGAGAGAAAGATCACTAGGCTCGTGTCTAAATGGTGGTGGTGGTCT 1000
Qy 1084 TCATCGTCTGCTGGACTCCCAATTCATTTACGTATCATTAAGAGCTTGGTTACAATCC 1143
Db 1001 TTGTGCTATGCTGGATGGCAATCTATGTAGTGAGCTTCTGAATCTGTTTGTACACAGCC 1060
Qy 1144 CAGAAACTAGTTCAGACTGTTTCTTGGCACTTCTGCACTTCTAGGTTCTAGGTTACACAAACA 1203
Db 1061 TCGATGCCACTGTCAACCAATGTCTCCTCATCTCAGCTATGCC-----AACAA 1108
Qy 1204 GCTGCTCAACCCAGTCTCTTTATGCAATTTCTGATGAAACCTTCAAAACGATGCTTC 1259
Db 1109 GCTGTGCCAACCGAATCTCTATGTTCTCTAGGTTCTCTCAGACCAACTTCCGACGCTCTTTC 1164
RESULT 14
US-10-533-355-9
; Sequence 9, Application US/10533355
; Publication No. US20050272040A1
; GENERAL INFORMATION:
; APPLICANT: University of Medicine and Dentistry of New Jersey
; APPLICANT: Black, Ira B.
; TITLE OF INVENTION: A METHOD FOR INCREASING SYNAPTIC GROWTH OR PLASTICITY
; FILE REFERENCE: UMD-0016
; CURRENT APPLICATION NUMBER: US/10/533,355
; PRIOR FILING DATE: 2005-04-29
; PRIOR APPLICATION NUMBER: US 60/422,986
; PRIOR FILING DATE: 2002-11-01
; NUMBER OF SEQ ID NOS: 16
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 9
; LENGTH: 1865
; TYPE: DNA
; ORGANISM: Rattus norvegicus
US-10-533-355-9

Query Match 7.3%; Score 158.8; DB 6; Length 1865;
Best Local Similarity 50.5%; Pred. No. 8.3e-38;
Matches 422; Conservative 0; Mismatches 402; Indels 12; Gaps 1;
Qy 424 TCACGATCATGCGCCCTCTACTCCATCGTGTGGTGGTGGGCTCTTCGGAATCTTCTGG 483
Db 189 TAACTATCCAGTGCATCTATGCGCTCGTGTGTCTGCTGGGCGCTGTGTAGGAAACGCGCCTGG 248
Qy 484 TCATGTATGTGTTGTCAGATACACCAAGATGAAGACTGCCACCAACATCTACATTTTCA 543
Db 249 TCATATTCGTGATCTCTACGCTATGTCGCTATGTCGCTATGTCGCTATGTCGCTATGTCGCTCA 308
Qy 544 ACCTTGCTCTGGCAGATGCTTACGCCACCATGACCTGCGCTTCCAGAGTGTGAATACC 603
Db 309 ACCTGCGCGTGTGATGAGCTTCTCATGCTAGTGTGCAATTTGTGGCTCGCGGCTG 368
Qy 604 TAAATGGGAACATGGCCATTTGGAAACCATCTTTTGAAGATAGTGATCTCCATAGATTA 663
Db 369 CCCTGCGCACTGGCCGCTTGGGGCGGTGTGTGCGCGCGAGTGTCTAGTGTGGACGGCC 428
Qy 664 ATAACTATGTTACACGATATTCACCTCTGACCATGATGTTGATCGATACATTTGAG 723
Db 429 TTAACATGTTACAGAGTGTCTTCTGCTCTCAGTGTCTCAGCGTGGATCGCTATGTGGCTG 488
Qy 724 TCTGCCACCTGTCAAGGCTTATGATTTCCGTACTCCCGAATGCAAAATATCAATG 783
Db 489 TAGTGACCTCTGCGAGTGTGCCACCTACCGGCGGCGCGAGCTGGCGCAAGCTAATCAACC 548
Qy 784 TCTGCAACTGGATCTCTCTTACGCCATTTGGTCTTCTGTAAATGTTTCAATGGCTTACAAACA 843
Db 549 TGGGAGTGTGGCTAGCATCTCTGTGTGTCACCTGCGCCATCGCAGTCTTCGTGCTGACACTA 608

Qy 844 AATACAGCAAGGTTTCCATAGATTGTACACTAAACATTTCTCATCCAACTGGTACTGGG 903
Db 609 GCCAGCTCGTGGGGGTGAGGAGTAGCTTGCAACTGCACCTGAGCTTCAACCGGCTGGT 668
Qy 904 AAAAAGCTCGTGAAGATCTGTGTTTCACTTTCGCCCTTCAATATGACAGTGTCTCATCA 963
Db 669 CTGCACTCTTGTGATCTATCTTTTGTGCTGGGCTTCTACTCCCGGTTCTGGCTATCG 728
Qy 964 CCGTGTGCTATGAGTATGATCTTTCGCCCTCAAGAGTGTCCGATGCTCTCTGGCTCCA 1023
Db 729 GATTAATGTTACTGCTTATCGTGGCAAGATGCGTGTGGCCCTGCGGCTGGCTGGC 788
Qy 1024 AAGAAAAGGACAGGAATCTTCGAAGGATCACCAAGATGCTGTGGTGGTGGTGGTGT 1083
Db 789 AACACGAGGCGCTCAGAGAGAGATCACTAGGCTCGTGTCTAATGGTGGTGGTGTCT 848
Qy 1084 TCATCGTCTGCTGGACTCCCAATTCACATTTAGCTCATATTAAGCTTGGTTACAACTCC 1143
Db 849 TTGTGCTATGCTGGATGCAATCTCTATGTAGTGCAGCTTCTGAATCTGTTTGTACACAGCC 908
Qy 1144 CAGAAACTACGTTCCAGACTGTTTCTTGGCACTTCTGCACTTCTGATGCTCTAGGTTACACAAACA 1203
Db 909 TCGATGCCACTGTCAACCATGTCCTCATCTCAGCTATGCC-----AACAA 956
Qy 1204 GCTGCTCAACCCAGTCTCTTTATGCAATTTCTGGATGAAACCTTCAAAACGATGCTTC 1259
Db 957 GCTGTGCCAACCGAATCTCTATGTTCTCTATGTTCTCTCAGACCAACTTCCGACGCTCTTTC 1012

RESULT 15
US-10-750-185-62128/c
; Sequence 62128, Application US/10750185
; Publication No. US20050260603A1
; GENERAL INFORMATION:
; APPLICANT: MMI GENOMICS, INC.
; APPLICANT: Denise, Sue K.
; APPLICANT: KERR, Richard
; APPLICANT: ROSENFELD, David
; APPLICANT: HOLM, Tom
; APPLICANT: BATES, Stephen
; APPLICANT: FANTIN, Dennis
; TITLE OF INVENTION: COMPOSITIONS FOR INFERRING BOVINE TRAITS
; FILE REFERENCE: MM1100-2
; CURRENT APPLICATION NUMBER: US/10/750,185
; CURRENT FILING DATE: 2003-12-31
; PRIOR APPLICATION NUMBER: US 60/437,482
; PRIOR FILING DATE: 2002-12-31
; NUMBER OF SEQ ID NOS: 64922
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 62128
; LENGTH: 856
; TYPE: DNA
; ORGANISM: Bovine 19866881260208
US-10-750-185-62128

Query Match 7.0%; Score 151.8; DB 6; Length 856;
Best Local Similarity 93.0%; Pred. No. 6.5e-36;
Matches 159; Conservative 0; Mismatches 12; Indels 0; Gaps 0;
Qy 1209 CTCAAACCCAGTCTTATGCAATTTCTGGATGAAACTTTCGATGAAACTTTCGAGAGTTTC 1268
Db 856 CTGAACCCCGTCTTATGCAATTTCTGGATGAAACTTTCGATGAAACTTTCGAGAGTTTC 797
Qy 1269 TGTATCCCAACCTCTTCCAACTTGGAGCAAAAACTCCACTCGAATTCGTGAGACACT 1328
Db 796 TGTATCCCAACTTCTCCACCAATTCAGCAGCAAACTCCACTCGAATTCGTGAGACACT 737
Qy 1329 ACAGACCAACCCCTCCACGCCCAATACAGTGGATAGAACTTAATCATCAGCTA 1379
Db 736 AGAGACCAACCCCTCCACGCCCAATACGGTGGATAGAACTTAATCATCAGCTA 686

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Job time : 310.514 secs

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Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 1303057 seqs, 888780828 residues

Total number of hits satisfying chosen parameters: 2606114

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued Patents NA: *
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2: /cgn2_6/prodata/1/ina/5_COMB.seq.*
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4: /cgn2_6/prodata/1/ina/6B_COMB.seq.*
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8: /cgn2_6/prodata/1/ina/RE_COMB.seq.*
9: /cgn2_6/prodata/1/ina/backfiles1.seq.*

pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	2147	99.2	2162	3	US-09-351-198-1
2	2147	99.2	2162	3	US-09-113-426-1
3	2147	99.2	2162	3	US-09-016-434-1379
4	2137.4	98.7	2162	3	US-09-355-709C-7
5	2125	98.2	2160	3	US-08-188-275A-1
6	1540	71.1	1610	3	US-08-889-108-7
7	1540	71.1	1610	6	PCT-US94-10358-7
8	1186.8	54.8	1203	3	US-09-826-509-544
9	1166	53.9	2229	3	US-09-214-904-1
10	1152.2	53.2	1182	3	US-09-826-509-546
11	1135.6	52.5	1981	3	US-08-387-707-15
12	1135.6	51.7	2135	3	US-08-405-271A-15
13	1118.8	51.7	2135	3	US-08-430-286A-1
14	1087.6	50.2	1618	3	US-08-889-108-1
15	1087.6	50.2	1618	3	US-08-889-108-3
16	1087.6	50.2	1618	3	US-08-120-601B-1
17	1087.6	50.2	1618	3	US-08-120-601B-3
18	1087.6	50.2	1618	6	PCT-US94-10358-1
19	1087.6	50.2	1618	6	PCT-US94-10358-3
20	1059.6	48.9	1610	3	US-09-761-962A-16
21	905	41.8	1542	3	US-09-761-962A-4
22	903.6	41.7	1365	3	US-09-761-962A-11
23	903.6	41.7	1423	3	US-09-761-962A-1
24	902.2	41.7	1334	3	US-09-761-962A-3

25	902.2	41.7	1729	3	US-09-761-962A-9	Sequence 9, Appli
26	902.2	41.7	2045	3	US-09-761-962A-10	Sequence 10, Appl
27	882.2	40.7	1346	3	US-09-761-962A-12	Sequence 12, Appl
28	803.6	37.1	1238	3	US-09-761-962A-2	Sequence 2, Appli
29	709.8	32.8	1257	3	US-09-761-962A-5	Sequence 5, Appli
30	695.2	32.1	830	3	US-08-387-707-13	Sequence 13, Appl
31	695.2	32.1	830	3	US-08-405-271A-13	Sequence 13, Appl
32	453	20.9	1275	3	US-09-341-446B-7	Sequence 7, Appli
33	451.4	20.8	1275	3	US-09-341-446B-5	Sequence 5, Appli
34	448.4	20.7	1829	2	US-08-411-859-1	Sequence 1, Appli
35	448.4	20.7	1829	3	US-08-387-707-7	Sequence 7, Appli
36	448.4	20.7	1829	3	US-08-405-271A-7	Sequence 7, Appli
37	448.4	20.7	2218	3	US-09-214-904-3	Sequence 3, Appli
38	448.4	20.7	2219	3	US-08-432-174A-1	Sequence 1, Appli
39	448.4	20.7	2272	3	US-08-147-592A-3	Sequence 3, Appli
40	448.4	20.7	2272	3	US-08-292-694A-3	Sequence 3, Appli
41	447	20.6	1773	3	US-09-016-434-1405	Sequence 1405, Ap
42	445.4	20.6	1119	3	US-09-826-509-538	Sequence 538, App
43	440.8	20.4	998	3	US-08-432-174A-3	Sequence 3, Appli
44	437.8	20.2	441	3	US-09-530-880-5	Sequence 5, Appli
45	432	20.0	1142	3	US-08-765-743-1	Sequence 1, Appli

ALIGNMENTS

RESULT 1

US-09-351-198-1
; Sequence 1, Application US/09351198
; Patent No. 6335168
; GENERAL INFORMATION:
; APPLICANT: Kreek, Mary J
; APPLICANT: Laforge, Karl S
; APPLICANT: Yu, Lei
; APPLICANT: Tischfield, Jay A.
; TITLE OF INVENTION: ALELES OF THE HUMAN MU OPIOID RECEPTOR, DIAGNOSTIC
; TITLE OF INVENTION: METHODS OF USING SAID ALLELES, AND METHODS OF TREATMENT
; TITLE OF INVENTION: BASED THEREON
; FILE REFERENCE: 600-1-226N
; CURRENT APPLICATION NUMBER: US/09/351,198
; CURRENT FILING DATE: 1999-07-09
; EARLIER APPLICATION NUMBER: 60/092,402
; EARLIER FILING DATE: 1998-07-10
; NUMBER OF SEQ ID NOS: 7
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1
; LENGTH: 2162
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (2063)
; OTHER INFORMATION: No. 6335168feature for this position in GeneBank.
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (2091)
; OTHER INFORMATION: No. 6335168feature for this position in GeneBank.
US-09-351-198-1

Query Match 99.2%; Score 2147; DB 3; Length 2162;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 2162; Conservative 0; Mismatches 0; Indels 3; Gaps 1;

QY	1	GGAAATCCGGCTATAGGCAGAGAGATGTCAGATCGCTCAGCTCGGTCCCTCCGCTGA	60
Db	1	GGAAATCCGGCTATAGGCAGAGAGATGTCAGATCGCTCAGCTCGGTCCCTCCGCTGA	60
QY	61	CGCTCTCTCTGTCCTCAGCCAGGACTGGTTCTTCTGAAGAAACAGCAGGAGCTGTGGCAGC	120
Db	61	CGCTCTCTCTGTCCTCAGCCAGGACTGGTTCTTCTGAAGAAACAGCAGGAGCTGTGGCAGC	120
QY	121	GGCGAAAGGAAGCGGCTGAGCGCTTGGAAACCGGAAAGTCTCGGTGCTCTCGGTACCT	180

Db 121 GCGAAAGGAGCGCTGAGCGCTTGGAACCCGAAAGTCTCGGTCTCTGGCTACCT 180
QY 181 GGCACAGGGTGGCCCGCGCGCTCAGTACCATGGACAGAGCGCTGCCCGCCACGAAAG 240
Db 181 GGCACAGGGTGGCCCGCGCGCGCTCAGTACCATGGACAGAGCGCTGCCCGCCACGAAAG 240
QY 241 CCAGCAATTGCATGCTGCTGGCGTACTCAAGTTGCTCCCGACGCCAGCCCGCGTT 300
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Db 301 CCTGGGTCAACTGTGCCACTTAGATGGCAACCTGTCCGACCCATGCGGTCCGAACGCA 360
QY 361 CCAACTGGGCGGAGAGACAGCTGTGCGCTCCGACCGGCGGAGTCCCTCCATGATCA 420
Db 361 CCAACTGGGCGGAGAGACAGCTGTGCGCTCCGACCGGCGGAGTCCCTCCATGATCA 417
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Db 418 CGGCCATCAGCATCATGCGCTCTACTCATCTGCTGCTGGTGGGGCTCTTCGAAACT 477
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Db 478 TCCTGGTCAATGATGATGTGTCAGATACCAAGATGAAGACTGCCACCAACATCTACA 537
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QY 1801 ACACATAAGTAAATGCTTACCTCTGATCAAGCAACCTTGAATGGAAGTCCGAGTCTTTT 1860
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QY 2161 AATTC 2165
Db 2158 AATTC 2162

RESULT 2

US-09-113-426-1

; Sequence 1, Application US/09113426

; Patent No. 6337207

; GENERAL INFORMATION:

; APPLICANT: Kreek, Mary J

; APPLICANT: Laforge, Karl S

APPLICANT: Yu, Lei
APPLICANT: Fischfield, Jay A.
TITLE OF INVENTION: ALLELES OF THE HUMAN MU OPIOID RECEPTOR, DIAGNOSTIC
TITLE OF INVENTION: METHODS OF USING SAID ALLELES, AND METHODS OF TREATMENT
TITLE OF INVENTION: BASED THEREON
FILE REFERENCE: 600-1-226
CURRENT APPLICATION NUMBER: US/09/113,426
CURRENT FILING DATE: 1998-07-10
NUMBER OF SEQ ID NOS: 7
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 1
LENGTH: 2162
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: misc_feature
LOCATION: (2063)
OTHER INFORMATION: No. 6337207feature for this position in GeneBank.
FEATURE:
NAME/KEY: misc_feature
LOCATION: (2091)
OTHER INFORMATION: No. 6337207feature for this position in GeneBank.
US-09-113-426-1
Query Match 99.2%; Score 2147; DB 3; Length 2162;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 2162; Conservative 0; Mismatches 0; Indels 3; Gaps 1;
QY 1 GGAATTCCGGCTATAGGCAGAGAGAGAAATGTCAGATGCTCAGCTCGGTCCCTCCGCTGA 60
DB 1 GGAATTCCGGCTATAGGCAGAGAGAGAAATGTCAGATGCTCAGCTCGGTCCCTCCGCTGA 60
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DB 121 GCGAAAGGAAGCGCTGAGCGCTTGGAAACCGAAAGCTCTCGGTCTCTCGGTACT 180
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DB 241 CAGCAATTGCACTGATGCTGGCGTACTCAAGTTGCTCCCGCAGCAGCGCGCGGT 300
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QY 481 TCTGTGTCATGATGATGTTGTCAGATACACCAAGATGAAGTGCACCAATCTACA 540
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QY 781 TCAATGTCTGCAACTGGATCCTCTCTTCAGCCATTTGGTCTTCTCTGTAAATGTCATGGCTA 840
DB 778 TCAATGTCTGCAACTGGATCCTCTCTTCAGCCATTTGGTCTTCTCTGTAAATGTCATGGCTA 837
QY 841 CAACAAAATACAGCAAGGTTCCATAGATTGTGTACACTAACATTCTCTCATCCAACTGGT 900
DB 838 CAACAAAATACAGCAAGGTTCCATAGATTGTGTACACTAACATTCTCTCATCCAACTGGT 897
QY 901 ACTGGGAAACCTCGTGAAGATCTGTGTTTTCATCTTCGCTTCAATTATGCCAGTCTCA 960
DB 898 ACTGGGAAACCTCGTGAAGATCTGTGTTTTCATCTTCGCTTCAATTATGCCAGTCTCA 957
QY 961 TCATTTACCGTGTCTATGGAATCTTTCGAGTCTTTCGAGTCTCAAGAGTCTCGCATGCTCTGT 1020
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QY 1141 CAATCCCAAGAAATACAGTTCAGAGTCTTCTTGCACTTCTGCAATGCTCTAGGTTACA 1200
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DB 1258 TCAGAGTCTGTGATCCCACTCTTCCAACTTGGCAACAACTTCCACTCCAAATTC 1317
QY 1321 GTCAGAACACTAGAGACCAACCCCTCCAGGCAATACAGTGGATAGAACTAATCATCAGC 1380
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QY 1441 CTTCCAGAGCTTAGAAGCCCACTGATGTGGAGCAGGTTGCTTCAAGATGTGTAGG 1500
DB 1438 CTTCCAGAGCTTAGAAGCCCACTGATGTGGAGCAGGTTGCTTCAAGATGTGTAGG 1497
QY 1501 AGGCTCTAATCTCTAGGAAAGTGTCTTCTAGGTATCCAACTCTTCTCTCTCTG 1560
DB 1498 AGGCTCTAATCTCTAGGAAAGTGTCTTCTAGGTATCCAACTCTCTCTCTCTG 1557
QY 1561 CCACCTCTCTCTGCACTTAGAGGACAGCCAAAGTAAAGTAAAGTAAAGTAAAGTAAAG 1620
DB 1558 CCACCTCTCTCTGCACTTAGAGGACAGCCAAAGTAAAGTAAAGTAAAGTAAAGTAAAG 1617
QY 1621 GAATATACACACCGAGGAGTCCAGTTTGTGCAAGCACCAGTGGAAACCAAAACCCATC 1680
DB 1618 GAATATACACACCGAGGAGTCCAGTTTGTGCAAGCACCAGTGGAAACCAAAACCCATC 1677
QY 1681 GTGGTATGTGAATCAAGTCTATATAAAGAGTGCCTTCTCTCTGTGAATTTTATTTT 1740
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QY 1741 CAAGCAAAATATTATGACCTCAACAAAGAAAGCAATCTTTTGTAAAGTTCACCGTAGTA 1800

Db 1738 CAAGCAAAATATTATGACCTCAACAAAGAAAGAACCATCTTTTGTAAAGTTACCGTAGTA 1797
Qy 1801 ACACATAAGTAAGTAAATGCTACCTCTGATCAAGACACCTTGAATGGAAGTCCGAGCTTTT 1860
Db 1798 ACACATAAGTAAGTAAATGCTACCTCTGATCAAGACACCTTGAATGGAAGTCCGAGTCTTTT 1857
Qy 1861 TAGTGTCTTTTGAAGGGAATGAATCCATTAATTTCTATTTTAGACTTTTAACTTTCAACTTAA 1920
Db 1858 TAGTGTCTTTTGAAGGGAATGAATCCATTAATTTCTATTTTAGACTTTTAACTTTCAACTTAA 1917
Qy 1921 AATTAGCATCTGGCTAAGGCATCAATTTTCACTCCATTTCTTGGTTTTGTATTGTTAAA 1980
Db 1918 AATTAGCATCTGGCTAAGGCATCAATTTTCACTCCATTTCTTGGTTTTGTATTGTTAAA 1977
Qy 1961 AAAATAACATCTCTTTTCATCTAGCTCCATTAATTTGCAAGGGAAGAGATTAGCATGAAGG 2040
Db 1978 AAAATAACATCTCTTTTCATCTAGCTCCATTAATTTGCAAGGGAAGAGATTAGCATGAAGG 2037
Qy 2041 TAATCTGAAACACAGCTCATGTGTCACTGTAAGAAAGTTGATTTCTATGCACTTCAATA 2100
Db 2038 TAATCTGAAACACAGCTCATGTGTCACTGTAAGAAAGTTGATTTCTATGCACTTCAATA 2097
Qy 2101 CTTCAAAGAGTCAATCATGGGGATTTTTCATTTCTTAGGCTTTCACTGGTTTTGTTCTGG 2160
Db 2098 CTTCAAAGAGTCAATCATGGGGATTTTTCATTTCTTAGGCTTTCACTGGTTTTGTTCTGG 2157
Qy 2161 AATTC 2165
Db 2158 AATTC 2162

RESULT 3

US-09-016-434-1379
; Sequence 1379, Application US/09016434
; Patent No. 6500938
; GENERAL INFORMATION:
; APPLICANT: Janice Au-Young
; APPLICANT: Jeffrey J. Seilhamer
; TITLE OF INVENTION: COMPOSITION FOR THE DETECTION OF SIGNALING
; TITLE OF INVENTION: PATHWAY GENE EXPRESSION
; NUMBER OF SEQUENCES: 1490
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: INCYTE PHARMACEUTICALS, INC.
; STREET: 3174 PORTER DRIVE
; CITY: PALO ALTO
; STATE: CALIFORNIA
; COUNTRY: USA
; ZIP: 94304
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Word Perfect 6.1 for Windows/MS-DOS 6.2
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/016,434
; FILING DATE: HERewith
; CLASSIFICATION:
; PRIOR APPLICATION NUMBER:
; FILING DATE:
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: Zeller, Karen J.
; REGISTRATION NUMBER: 37,071
; REFERENCE/DOCKET NUMBER: PA-0002 US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (650) 855-0555
; TELEFAX: (650) 845-4166
; INFORMATION FOR SEQ ID NO: 1379:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2162 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single

; TOPOLOGY: linear
; IMMEDIATE SOURCE:
; LIBRARY: GENBANK
; CLONE: 9452072
US-09-016-434-1379
Query Match 99.2%; Score 2147; DB 3; Length 2162;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 2162; Conservative 0; Mismatches 0; Indels 3; Gaps 1;
Qy 1 GGAATTCGGCTATAGGCAGAGGAGAAATGTCAAGATGCTCAGCTCGTCCCTCCGCTGA 60
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Db 61 CGCTTCCTCTCTGCTCAGCCAGGACTGGTTTCTGTAAAGAAACAGCAGAGAGCTGGCAGC 120
Qy 121 GGCAGAAAGGAAGCGCTGAGCGCTTGGAAACCCGAAAGTCTCGGTGCTCTCGGTACCT 180
Db 121 GGCAGAAAGGAAGCGCTGAGCGCTTGGAAACCCGAAAGTCTCGGTGCTCTCGGTACCT 180
Qy 181 CGCACAGCGGTGCGCCCGCGCGCTCAGTACCATGGAACAGCAGCGCTGCCCCACGAACG 240
Db 181 CGCACAGCGGTGCGCCCGCGCGCTCAGTACCATGGAACAGCAGCGCTGCCCCACGAACG 240
Qy 241 CCAGCAATTGCACTGATGCTTGGCGTACTCAAGTTGCTCCCGAGCAACCGCGGTT 300
Db 241 CCAGCAATTGCACTGATGCTTGGCGTACTCAAGTTGCTCCCGAGCAACCGCGGTT 300
Qy 301 CTTGGGTCAACTTGTCCACCTTAGATGGCAACCTGTCGACCCATGGGTCGGAACCGCA 360
Db 301 CTTGGGTCAACTTGTCCACCTTAGATGGCAACCTGTCGACCCATGGGTCGGAACCGCA 360
Qy 361 CCACCTGGGCGGAGAGACAGCCTGTGCCCTCCGACCGGCGGAGTCCCTCCATGATCA 420
Db 361 CCACCTGGGCGGAGAGACAGCCTGTGCCCTCCGACCGGCGGAGTCCCTCCATGATCA 417
Qy 421 CGGCGATCAGATCATGGCCCTCTACTCCATGCTGCTGGTGGTGGGCTCTTCGGAACCT 480
Db 418 CGGCGATCAGATCATGGCCCTCTACTCCATGCTGCTGGTGGTGGGCTCTTCGGAACCT 477
Qy 481 TCCTGTGTCATGTATGTGATGTAGATACACCAAGATGAAGACTGCCACCAACATCTACA 540
Db 478 TCCTGTGTCATGTATGTGATGTAGATACACCAAGATGAAGACTGCCACCAACATCTACA 537
Qy 541 TTTTCAAACCTTGTCTCGCAGATGCTTACCCCTCTGCACCATGCTCCCTCCAGAGTGA 600
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Db 1018 GCTCCAAAGAAAGAGCAGGAATCTTCGAAGGATCACAGGATGCTGTGGTGGTGG 1077
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Db 1078 CTGTGTTTCATCGTCTGCTGGACTCCCATTCACATTTAGCGTCATTTAAAGCCTTGGTTA 1137
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Db 1138 CAATCCAGAAACTAGTTCAGACTGTTTCTTGGCACTTCGCACTTCAGTTACTAGTTACA 1197
QY 1201 CAACAGCTGCCTCAACCCAGTCTTTATGCAATTTCTGATGAAACTTCAACGATGCT 1260
Db 1198 CAACAGCTGCCTCAACCCAGTCTTTATGCAATTTCTGATGAAACTTCAACGATGCT 1257
QY 1261 TCAGAGAGTCTGTATCCCAACCTCTTCCAACTTGGAGCAACAACTCCACTCGAATTC 1320
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QY 1321 GTCAGAACACTAGAGACCCCTCCACGGCCAAATACAGTGGATAGAACTAATCATCAGC 1380
Db 1318 GTCAGAACACTAGAGACCCCTCCACGGCCAAATACAGTGGATAGAACTAATCATCAGC 1377
QY 1381 TAGAAATCTGAGAGAGAACTGCTCCGTTCGCTTAAAGAGTCTCATGCCATCCGAC 1440
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Db 1498 AGGCTCTAAATCTCTAGGAAAGTGCCTATCTTTAGGTCTATCCAACTCTTCTCTCTG 1557
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Db 1618 GAATATACCAACCGAGGAGTCCAGTTTGTGCAAGACACCCAGTGGAAACCAACCCATC 1677
QY 1681 GTGGTATGTAATTGAAGTCATATAAAGGTGACCCCTTCTGTGTGAAGATTTTATTTT 1740
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QY 1741 CAAGCAAAATTTATGACCTCAACAAAGAAAGACCATCTTTTCTTAAGTTCCAGGTATA 1800
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Db 1798 ACACATAAGTAAATGCTACTCTGTATCAAGACACCTTGAATGGAAGGTCCGAGTCTTTT 1857
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Db 2098 CTTCCAAAGAGTCAATCATGCGGGAATTTTCAATCTTAGGCTTTCAGTGGTTTGTTCCTGG 2157
QY 2161 AATTC 2165
Db 2158 AATTC 2162

RESULT 4
US-09-355-709C-7
; Sequence 7, Application US/09355709C
; Patent No. 6538120
; GENERAL INFORMATION:
; APPLICANT: Max-Delbruck-Centrum fur Molekulare Medizin
; TITLE OF INVENTION: Genomic Sequences of Human -opioid Receptor Gene ...
; FILE REFERENCE: 101195-15
; CURRENT APPLICATION NUMBER: US/09/355,709C
; CURRENT FILING DATE: 1999-09-27
; PRIOR APPLICATION NUMBER: DE 197 03 925.1
; PRIOR FILING DATE: 1997-02-03
; NUMBER OF SEQ ID NOS: 7
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 7
; LENGTH: 2162
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Human Genomic
; OTHER INFORMATION: Clone
; OTHER INFORMATION: cDNA encoding human opiate receptor
; NAME/KEY: unsure
; LOCATION: (2063)
; OTHER INFORMATION: n = unknown
; NAME/KEY: unsure
; LOCATION: (2091)
; OTHER INFORMATION: n = unknown
US-09-355-709C-7

Query Match 98.7%; Score 2137.4; DB 3; Length 2162;
Best Local Similarity 99.8%; Pred No. 0;
Matches 2153; Conservative 0; Mismatches 1; Indels 3; Gaps 1;
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;
; CLASSIFICATION: 530
; ATTORNEY/AGENT INFORMATION:
; NAME: Murphy Jr., Gerald M.
; REGISTRATION NUMBER: 28,977
; REFERENCE/DOCKET NUMBER: 1173-449P
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 703-241-1300
; TELEFAX: 703-241-2848
; TELEX: 248345
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2160 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: linear
; MOLECULE TYPE: cdna
; FEATURE:
; NAME/KEY: -
; LOCATION: 1..2160
; OTHER INFORMATION: /label= cdna
; OTHER INFORMATION: /note= "cdna encoding human mu opiate receptor"
;
US-08-188-275A-1

Query Match      98.2%; Score 2125; DB 3; Length 2160;
Best Local Similarity 99.8%; Pred. No 0;
Matches 2160; Conservative 0; Mismatches 0; Indels 5; Gaps 3;

QY 1 GGAATTCGGGCTATAGCAGAGAGAGAAATCTCAGATGCTCAGTCTGGTCCCTCCGCTGA 60
DB 1 GGAATTCGGGCTATAGCAGAGAGAGAAATCTCAGATGCTCAGTCTGGTCCCTCCGCTGA 60
QY 61 CGCTCTCTCTGTCTCAGCAGGACTGGTTCTGTAAAGAAACAGCAGGAGCTGTGCAGC 120
DB 61 CGCTCTCTCTGTCTCAGCAGGACTGGTTCTGTAAAGAAACAGCAGGAGCTGTGCAGC 120
QY 121 GCGAAAGGAAGCGGCTGAGGGCTTGGAAACCGGAAAGTCTCGGTGCTCCTGGTACCT 180
DB 121 GCGAAAGGAAGCGGCTGAGGGCTTGGAAACCGGAAAGTCTCGGTGCTCCTGGTACCT 180
QY 181 CGCAGACGGGTGCCGCCCGCGCTCAGTACCATGGAACAGCAGCGCTGCCCGCAGAACG 240
DB 181 CGCAGACGGGTGCCGCCCGCGCTCAGTACCATGGAACAGCAGCGCTGCCCGCAGAACG 240
QY 241 CAGCAATTTGCACTGATGCTTGGGCTACTCAAGTTGCTTCCCAGCACCAGCCCGGTT 300
DB 241 CAGCAATTTGCACTGATGCTTGGGCTACTCAAGTTGCTTCCCAGCACCAGCCCGGTT 300
QY 301 CTTGGGTCAACTTGTCCCACTTAGATGGCAACTGTCGACCCATCGCGTCCGAAACCGCA 360
DB 301 CTTGGGTCAACTTGTCCCACTTAGATGGCAACTGTCGACCCATCGCGTCCGAAACCGCA 360
QY 361 CCAACTGGGCGGAGAGACAGCTGTGCCCTCCGACCGGCGGAGTCCCTCCATGATCA 420
DB 361 CCAACTGGGCGGAGAGACAGCTGTGCCCTCCGACCGGCGGAGTCCCTCCATGATCA 417
QY 421 CGGCCATCAGATCATGCGGCTCTACTCCATCGTGTGCGTGGGGCTCTTCGGAACT 480
DB 418 CGGCCATCAGATCATGCGGCTCTACTCCATCGTGTGCGTGGGGCTCTTCGGAACT 477
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DB 478 TCCGTGTGATGATGATTTGTGATGATGATGATGATGATGATGATGATGATGATGATGAT 537
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DB 538 TTTTCAACCTTGTCTGGCAGATGCTTACGACCCAGTACCCCTGCCCTTCCAGAGTGTGA 597
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DB 598 ATTACCTAATGGGAACATGGCCATTGGGAACCATCTTTGCAAGATAGTATCTCCATAG 657
QY 661 ATTACTATACATGTTTACCAGCATATTACCCCTCTGCAACCATGAGTGTGATCGGATACA 720
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QY 841 CAACAAAATACAGCAAGGTTCCATAGATTTGACACTAACATTTCTCTCATCCAACTGCT 900
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DB 898 ACTGGAAAACTCGTGAAGATCTGTGTTTTCATCTTGCCCTTCATTTATGCCAGTGCTCA 957
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QY 1261 TCAGAGAGTCTGTATCCCACTCTTCCAACTTTCAGCAACAAACCTCCACTCGAATTC 1320
DB 1258 TCAGAGAGTCTGTATCCCACTCTTCCAACTTTCAGCAACAAACCTCCACTCGAATTC 1317
QY 1321 GTCAAGAACACTAGAGACCAACCCCTCCAGGCCAATACAGTGGATAGAACTAATCATCAGC 1380
DB 1318 GTCAAGAACACTAGAGACCAACCCCTCCAGGCCAATACAGTGGATAGAACTAATCATCAGC 1377
QY 1381 TAGAAAACTCGAAGCAGAAACTGCTCGTTCGCTTAACAGGGTCTCATGCCATTCGGAC 1440
DB 1378 TAGAAAACTCGAAGCAGAAACTGCTCGTTCGCTTAACAGGGTCTCATGCCATTCGGAC 1437
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DB 1438 CTTTCAACGCTTTAGAACCCATGATGTGGAAGCAGGTTGCTTCAAGAAATGTGTAGG 1497
QY 1501 AGGCTCTAATTTCTAGGAAAGTGCTTCTTTTAGGTCTATCCAACTCTTTCTCTCTG 1560
DB 1498 AGGCTCTAATTTCTAGGAAAGTGCTTCTTTTAGGTCTATCCAACTCTTTCTCTCTG 1557
QY 1561 CCACTCTGCTGCACTTAGAGGACACGCAAAAGTAAGTGGAGCATTTGGAGGAAAG 1620
DB 1558 CCACTCTGCTGCACTTAGAGGACACGCAAAAGTAAGTGGAGCATTTGGAGGAAAG 1617
QY 1621 GAATATACACACCGAGGAGTCCAGTTTGTGCAAGACACCCAGTGGAAACCAAAACCCATC 1680
DB 1618 GAATATACACACCGAGGAGTCCAGTTTGTGCAAGACACCCAGTGGAAACCAAAACCCATC 1677
QY 1681 GTGGTATGTGAATTTGAAGTTCATATAAAAGGTGACCTTTCTGTCTGTAAAGTTTATTTT 1740
DB 1678 GTGGTATGTGAATTTGAAGTTCATATAAAAGGTGACCTTTCTGTCTGTAAAGTTTATTTT 1737
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QY 1801 ACACATAAGTAAATGCTACCTCTGATCAAGCAGCTTGAATGGAAGTCCGAGTCTTTT 1860
DB 1798 ACACATAAGTAAATGCTACCTCTGATCAAGCAGCTTGAATGGAAGTCCGAGTCTTTT 1857
QY 1861 TAGTGTGTTTTGCAAGGAATGAATCCATTATTCTATTTTAGACTTTTAACTTCAACTTAA 1920
DB 1858 TAGTGTGTTTTGCAAGGAATGAATCCATTATTCTATTTTAGACTTTTAACTTCAACTTAA 1917
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DB 1918 AATTAGCATCTGGCTAAGGCATCATTTTCACTCCATTTCTTGGTTTTGTTATGTTTAAA 1977
QY 1981 AAAATAACATCTCTTTTCACTCTAGCTCCATATTTGCAAGGGAAGATAGCATGAAGG 2040
DB 1978 AAAATAACATCTCTTTTCACTCTAGCTCCATATTTGCAAGGGAAGATAGCATGAAGG 2037
QY 2041 TAATCTGAAACACAGTCATGTCTCANCCTGTAGAAAAGTTGATTCTCATGCACTNCAATA 2100
DB 2038 TAATCTGAAACACAGTCATGTCTCA-CTGTAGAAAAGTTGATTCTCATGCACT-CAATA 2095
QY 2101 CTTCCAAAGAGTCATCATGGGGATTTTTCATTTTAGCTTTTCACTGTTTGTCTGG 2160
DB 2096 CTTCCAAAGAGTCATCATGGGGATTTTTCATTTTAGCTTTTCACTGTTTGTCTGG 2155
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DB 2156 AATTC 2160

RESULT 6

US-08-889-108-7
; Sequence 7, Application US/08889108
; Patent No. 6103492
; GENERAL INFORMATION:
; APPLICANT: Yu, Lei
; TITLE OF INVENTION: Mu Opioid Receptors: Compositions and Methods
; NUMBER OF SEQUENCES: 17
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Arnold, White & Durkee
; STREET: P. O. Box 4433
; CITY: Houston
; STATE: TX
; COUNTRY: USA
; ZIP: 77210-4433
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/889,108
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/305,518
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Wilson, Mark B.
; REGISTRATION NUMBER: 37,259
; REFERENCE/DOCKET NUMBER: INDA005\WIM
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 512-418-3000
; TELEFAX: 512-474-7577
; INFORMATION FOR SEQ ID NO: 7:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1610 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
US-08-889-108-7

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Best Local Similarity 99.4%; Pred. No. 0;
Matches 1567; Conservative 0; Mismatches 5; Indels 4; Gaps 2;
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DB 335 AACTTGTCCCACTTAGATGGCAACTGTCCGACCATGCGGTCCGAAACCGCAGCAACCTG 394
QY 369 GCGGAGAGACAGCCTGTGCCCTCCGACCGCGCGCAGTCCCTCCATGATCACGGCCATC 428
DB 395 GCGGAGAGACAGCCTGTGCCCTCCGACCGCGCGCAGTCCCTCCATGATCACGGCCATC 451
QY 429 ACGATATGCGCCTCTACTCATGCTGTGCTGTGGGGCTCTTCGGAACCTTCTGGTC 488
DB 452 ACGATATGCGCCTCTACTCATGCTGTGCTGTGGGGCTCTTCGGAACCTTCTGGTC 511
QY 489 ATGTATGTGATTGTGCAGATACACCAAGATGAAGACTGCACCAACATCTACATTTCAAC 548
DB 512 ATGTATGTGATTGTGCAGATACACCAAGATGAAGACTGCACCAACATCTACATTTCAAC 571
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DB 872 TACAGGCAAGGTTCCATAGATTGTACACTAACATTTCTCATCCAACTGGTACTGGAA 931
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Db 1198 CCCTAA 1203

RESULT 9

US-09-214-904-1
; Sequence 1, Application US/09214904
; Patent No. 6632977
; GENERAL INFORMATION:
; APPLICANT:
; TITLE OF INVENTION: TRANSGENIC ANIMAL IN WHICH THE EXPRESSION
; OF OPIATE RECEPTORS IS MODIFIED
; NUMBER OF SEQUENCES: 6
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent in Release #1.0, Version #1.25 (EPO)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/214,904
; FILING DATE:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/FR97/01282
; FILING DATE:
; APPLICATION NUMBER: FR 96.08810
; FILING DATE: 15-JUL-1996
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2229 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 256..1449
US-09-214-904-1

Query Match 53.9%; Score 1166; DB 3; Length 2229;
Best Local Similarity 77.8%; Pred. No. 2.6e-289;
Matches 1543; Conservative 0; Mismatches 410; Indels 31; Gaps 10;
QY 9 GGCATATAGGCAGAGGAGAAATGTGATGCTCAGTCCGTCCTCCGCTCCGCTCCCTC 68
Db 52 GGATACAGCAGAGGAGAAATATCGGAGCTCAG-AGCTTCATTCGCTCCGCTCCCTC 110
QY 69 TCTGTCTCAGCAGGAGTGTTCGTGTAAGAAACAGCAGAG-CTGTGGCAGCGCGAAA 127
Db 111 TCTGGTTTCCACTAGGGCTTGTCTCTGTAAGAAACTGACGAGGCTTAGGGAGCTGTGAGA 170
QY 128 GGAAGCGGCTGAGCGCTTCGAAACCCGAAAGTCTCGGTGCTCTCGCTACCTCGCACAG 187
Db 171 GGAAGAGGCTTGGGCGCTCGAACCCGAAACACTCTTGTAGTGCTCTCAGTTACAGCTACC 230
QY 188 CGGTGCCCGCCCGGCGGTTCAGTACCAATGGAAGAGCGCTGCCCGCCACGAAACCGCAGCAA 247
Db 231 GAGTCCGACAGCAAGCAATTCAGAACCAATGGAACAGCAGCGCGCGGCGCCAGGAGCAATCAGCGA 290
QY 248 TTGACTGATGCTTGGCGTACTCAAGTTGCTCCCGAGCACCAGCGCCCGGTTCTCGGT 307

Db 291 CTGCTCTGACCCCTTAGCTCTCTGCAAGTTGGTCCCAGCA-----CTGGCTCTGGCT 344
QY 308 CAACCTGTGCCACACTTAGATGGCAACCTGTCCGACCCATGCGGTCCGAAACCGCACCAACT 367
Db 345 CAACCTGTGCCACACTTAGATGGCAACCTGTCCGACCCATGCGGTCCGAAACCGCACCGGT 404
QY 368 GGGGGGAGAGACAGCCTGTGCTCCGACCGGGGAGTCCCTCCATGATACCGGCCAT 427
Db 405 TGGCGGAGGACACAGCCTGTGCTCCGACG---CGGACGCTTCCATGGTCCACAGCCAT 461
QY 428 CACGATCATGCGCTCTACTCATGCTGTGCTGGGTCTTCCGAAACTCTCTGCTGT 487
Db 462 CACCATCATGCGCTCTACTCATGCTGTGCTGGGTCTTCCGAAACTCTCTGCTGT 521
QY 488 CATGTATGTGATGTGTCAGATACACCAAGATGAAGACTGCCACCAACATCTACATTTTCAA 547
Db 522 CATGTATGTGATGTGTAAGATATACCAAAATGAAGACTGCCACCAACATCTACATTTTCAA 581
QY 548 CCTTGCTCTGCGAGATGCTTAGCCACACAGTACCTGCTCCCTTCCAGAGTGTGAATACCT 607
Db 582 CCTTGCTCTGCGAGATGCTTAGCCACACTAGCAGCTGCTGCTTCCAGAGTGTGAATACCT 641
QY 608 AATGGAAACATGGCCATTTGGAAACATCCTTTGCAAGATAGTATCTCCATAGATACTA 667
Db 642 GATGGAAACGCTGGCCCTTTGGAAACATCCTCTGCAAGATCGTGATCTCAATAGACTACTA 701
QY 668 TAAACATGTTCCACGACATATTCACCTCTGCACCATGATGTTGATCGATACATTTGCACT 727
Db 702 CAACATGTTCCACGATATCTTCCCTCTGCAACATGATGTTAGCCGCTACATTTGCCCT 761
QY 728 CTGCCACCTCTGCAAGGCTTAGATTTCCGTAATCTCCGAAATGCCAAATATCAATGT 787
Db 762 CTGCCACCGGTCAGGCTTGGATTTCCGTAATCTCCGAAATGCCAAATATGTCATGT 821
QY 788 CTGCAACTGGATCTCTCTTCCGCAATTTGGTCTGCGCGTAAATGTTTCATGGCTACACAAA 847
Db 822 CTGCAACTGGATCTCTCTTCCGCAATTTGGTCTGCGCGTAAATGTTTCATGGCTACACAAA 881
QY 848 ATACAGGCAAGGTTCCATGATGTTGACACTACATTTCTCTCATCCAACTGGTACTGGGA 907
Db 882 ATACAGGCAAGGTTCCATGATGTTGACACTACATTTCTCTCATCCCACTGGTACTGGGA 941
QY 908 AAACCTCTGGAAGATCTGTGTTTTCATCTTCGCTTCAATATGCCAGTCTCATCAATAC 967
Db 942 GAACCTGCTCAAAATCTGTGCTTCTCATCTTCGCTTTCATGTCGGTCTCATCATCAC 1001
QY 968 CGTGTCTATGGAATGATCTTGGGCTCAAGAGTGTCCGATGCTCTCTGGCTCCAA 1027
Db 1002 TGTGTGTTATGGACTGATCTTACGACTCAAGAGTGTCCGATGCTCTGCGGCTCCAA 1061
QY 1028 AGAAAAGGACAGAAATCTTCGAAGGATCACAGGATGGTGGTGGTGGTGGTGGTGGTGGT 1087
Db 1062 AGAAAAGGACAGAAATCTTCGAAGGATCACAGGATGGTGGTGGTGGTGGTGGTGGTGGT 1121
QY 1088 CATGCTCTGCTGAGCTCCCAATTCACATTTACGTCATCAATTAAGGCTTGGTTACAATCCC 1147
Db 1122 TATGTCTGCTGAGCCCCCATCCACATCTATGTCATCATCAAGCACTGATACGATTC 1181
QY 1148 AGAAACTACGTTCCAGACTGTTTCTTGGCACTTCTGCAATGCTCTAGGTGTACAAACAG 1207
Db 1182 AGAAACCACTTTCAGACTGTTTCTTGGCACTTCTGCAATGCTCTAGGTGTACAAACAG 1241
QY 1208 CTGCTCAACCCAGTCTTATGCAATTTCTGATGAAACTTCAACAGATGCTTTCAGAGA 1267
Db 1242 CTGCTCAACCCAGTCTTATGCAATTTCTGATGAAACTTCAACAGATGCTTTCAGAGA 1301
QY 1268 GTTCTGATCCCAACTCTTCCAACTTGAGCAACAAACTCCCACTCGAATTCGTTCAGAA 1327
Db 1302 GTTCTGATCCCAACTCTTCCCACTTGAGCAACAAACTCTGCTCGAATTCGTTCAGAA 1361
QY 1328 CACTAGAGACCAACCTTCCACCGCCCAATACAGTGGATAGAACTAATCATCAGCTAGNAAA 1387

Db 1362 CACTAGGGAACACCCCTCCACGGCTAAATACAGTGGATCGAACTAACCCACGCTAGAAA 1421
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Db 1422 TCTGGAACGAGAACTGCTCCATTCGCCCTTAACAGGGTCCACGCCATCCAGACCCCTGCT 1481
Qy 1448 AAGCTTAGAAGCACCATGTATGTGGAAGCAGGTTGCTTCAAGAAATGTTAGGAGGCTCT 1507
Db 1482 AAACCTTAGAGGCTGCATCTACTTGGAAATCAGTTGCTGTAGGGTGTGTTGGAGGCTCT 1541
Qy 1508 AATCTCTAGGAAGTGCTACTTTTAGGTTCATCCAACTCTTTCTCTCTGGCCACTCT 1567
Db 1542 GGTTCCTGGAAAAGCATCTGATCTGATCTGATCAATCAAAAGTCATCTCTCTGGCTATTCA 1601
Qy 1568 GCTCTGCATATTAGAGGACAGCCAAAAGTAAGTGGAGCATTTGGAAGAAAGNAATATA 1627
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Qy 1628 CCACACCGAGGAGTCCAGTT--TGTGCAAGACACCCAGTGGAAACCAAAACCCATCGTGGT 1685
Db 1658 GGCCACTACTGNATCCAGCTCATGTACAGAAACATCCAATGGACCAATTAATCTGTGGT 1717
Qy 1686 ATGTGAATGAGTGCATCATAAAAGTGACCTTCTGTCTGT- AAGATTTTATTTTCAAG 1744
Db 1718 ATGTGATTTGTGATCAACATAGAAGTGACCTTCCCTATGTGGAAATTTTAAATTTCAAG 1777
Qy 1745 CAAATATTATGACCTCAACAAAGAAAGCA- ----TCCTTTTGTAAAGTTACCGTAGTA 1800
Db 1778 GAAATACTTATGATCTCATCAAGGGAAGAAATAGATGTCACTTGTTTAAATTTCACTGTAGT 1837
Qy 1801 ACACATAAGTAATGCTACCTCTCATCAAGACACCTTGAATGGAAGTCCGAGTCTTTT 1860
Db 1838 ATGCATAAGGAAGAAAGTACCTCTGACCTCTAGCCAGTCACTCTTAAGAAAGTTCCA 1897
Qy 1861 TAGTGTTTTTCAGAGGAATGAATCAATTAATTTTAGACTTTTAACTTTCAACTTAA 1920
Db 1898 TAGGAAATATGAGGGAA-----AATGTTGCTTCCAAATTTAAATTTTCACTTTA 1948
Qy 1921 AATTAGCATCTGGCTTAAGGCATCATTTTCACTTCACTTCACTTCTGTTTGTATTTGTTAAA 1980
Db 1949 TGTATAGTCTAGTTTAAGACATCAGGGGCATCTCTGTTTCTTGGTTTGTATTTGTTGAA 2008
Qy 1981 AAAA 1984
Db 2009 AGAA 2012

RESULT 10
US-09-826-509-546
; Sequence 546 Application US/09826509
; Patent No. 6806054
; GENERAL INFORMATION:
; APPLICANT: Lehmann-Bruinsma, Karin
; APPLICANT: Liaw, Chen W.
; APPLICANT: Lin, I-Lin
; TITLE OF INVENTION: No. 6806054-Endogenous, Constitutively Activated Known G
; FILE REFERENCE: AREN-207
; CURRENT APPLICATION NUMBER: US/09/826,509
; CURRENT FILING DATE: 2001-04-05
; PRIOR APPLICATION NUMBER: 60/195,747
; PRIOR FILING DATE: 2000-04-07
; PRIOR APPLICATION NUMBER: 09/170,496
; PRIOR FILING DATE: 1998-10-13
; NUMBER OF SEQ ID NOS: 589
; SOFTWARE: PatentIn Version 2.1
; SEQ ID NO 546
; LENGTH: 1182
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-826-509-546

Query Match 53.2%; Score 1152.2; DB 3; Length 1182;

Best Local Similarity 99.5%; Pred. No. 6.8e-286;
Matches 1167; Conservative 0; Mismatches 3; Indels 3; Gaps 1;
Qy 213 ATGGAACAGCAGCGCTGCCCCACGAAACGACCAATTTGCACTGATGCTTGGCGTACTCA 272
Db 1 ATGGACAGCAGCGCTGCCCCACGAAACGACCAATTTGCACTGATGCTTGGCGTACTCA 60
Qy 273 AGTTGCTCCCCAGCACCCAGCCCGGTTCTTGGGTCAACTTGTCCCACTTAGATGGCAAC 332
Db 61 AGTTGCTCCCCAGCACCCAGCCCGGTTCTTGGGTCAACTTGTCCCACTTAGATGGCAAC 120
Qy 333 CTGTCCGACCATCGGTCGGAACCGCAACCACTGGCGGGAGAGACAGCCTGTGCCCT 392
Db 121 CTGTCCGACCATCGGTCGGAACCGCAACCACTGGCGGGAGAGACAGCCTGTGCCCT 180
Qy 393 CCGACCGGGGAGTCCCTCATGATCAGGCCATCAAGATCATGGCCCTTACTCCATC 452
Db 181 CCGAC---CGGACAGTCCCTCATGATCAGGCCATCAAGATCATGGCCCTTACTCCATC 237
Qy 453 GTGTGCGTGGTGGGCTTTCCGGAACCTTCTGTCATGTATGTGATTTGTCAGATACACC 512
Db 238 GTGTGCGTGGTGGGCTTTCCGGAACCTTCTGTCATGTATGTGATTTGTCAGATACACC 297
Qy 513 AAGATGAAGACTGCGCAACCACTACATTTTCAACCTTGTCTTGGCAGATGCTTAGCC 572
Db 298 AAGATGAAGACTGCGCAACCACTACATTTTCAACCTTGTCTTGGCAGATGCTTAGCC 357
Qy 573 ACCAGTACCCTGCCCTTCCAGAGTGAATTAACCTAATGGGAACATGGCAATTTGGAAC 632
Db 358 ACCAGTACCCTGCCCTTCCAGAGTGAATTAACCTAATGGGAACATGGCAATTTGGAAC 417
Qy 633 ATCCTTTGCAAGATAGTATCCATAGATTTACTATAACATGTTACACGATATTCACC 692
Db 418 ATCCTTTGCAAGATAGTATCCATAGATTTACTATAACATGTTTACACGATATTCACC 477
Qy 693 CTCTGCAACATGAGTGTGATACATATTCGAGTCTGCCACCCCTGTCAAGGCCCTTAGAT 752
Db 478 CTCTGCAACATGAGTGTGATACATATTCGAGTCTGCCACCCCTGTCAAGGCCCTTAGAT 537
Qy 753 TTCGTAATCCCCGAAATGCCAAATTAATCAATGTCTGCAACTGGATCTCTCTTCAGCC 812
Db 538 TTCGTAATCCCCGAAATGCCAAATTAATCAATGTCTGCAACTGGATCTCTCTTCAGCC 597
Qy 813 ATTGCTCTCTGTAAATGTTTCATGGCTTACAAATAACAGGCAAGGTTCCATAGATTGT 872
Db 598 ATTGCTCTCTGTAAATGTTTCATGGCTTACAAATAACAGGCAAGGTTCCATAGATTGT 657
Qy 873 ACATAACATTTCTCATCCAAACCTGGTACTTGGGAAAACCTCGTGAAGATCTGTGTTTC 932
Db 658 ACATAACATTTCTCATCCAAACCTGGTACTTGGGAAAACCTCGTGAAGATCTGTGTTTC 717
Qy 933 ATCTTGGCTTCATTAATGCGAGTGTCTCATTAACCTGTGTGCTATGAGTATGATCTTG 992
Db 718 ATCTTGGCTTCATTAATGCGAGTGTCTCATTAACCTGTGTGCTATGAGTATGATCTTG 777
Qy 993 CGCTCAAGAGTGTCCGATGCTCTGCTGCTCCAAAGAAAAGGACAGGAATCTTCGAAG 1052
Db 778 CGCTCAAGAGTGTCCGATGCTCTGCTGCTCCAAAGAAAAGGACAGGAATCTTCGAAG 837
Qy 1053 ATCAACAGGATGGTGGTGGTGGTGGTGTTCATCGTCTGCTGCAATTCCTCATTCAC 1112
Db 838 ATCAAGAGGATGGTGGTGGTGGTGGTGTTCATCGTCTGCTGCAATTCCTCATTCAC 897
Qy 1113 ATTTAGCTCATTAATAAGCCTTTGGTTTACAATCCGAAATACAGTTTCCAGACTGTTTCT 1172
Db 898 ATTTAGCTCATTAATAAGCCTTTGGTTTACAATCCGAAATACAGTTTCCAGACTGTTTCT 957
Qy 1173 TGGCACTTCTGCATTTGCTCTAGGTTACAAACAGTGCCTCAACCCAGTCCCTTTATGCA 1232
Db 958 TGGCACTTCTGCATTTGCTCTAGGTTACAAACAGTGCCTCAACCCAGTCCCTTTATGCA 1017
Qy 1233 TTTCTGGATGAAAACCTTCAACCGATGCTTCAGAGAGTTCTGTATCCCAACCTCTTCCAAC 1292

Db 1018 TTCTCGATGAAACTTCAACGATCTTCAGAGAGTTCTGTATCCCAACCTCTTCCAC 1077
Qy 1293 ATTGACAAACAACTCCACTCGAATTCGTGAGAACACTAGAGACACCCCTCCAGGGCC 1352
Db 1078 ATTGACAAACAACTCCACTCGAATTCGTGAGAACACTAGAGACACCCCTCCAGGGCC 1137
Qy 1353 AATACAGTGGATAGAACTAATCATCAGCTAGAA 1385
Db 1138 AATACAGTGGATAGAACTAATCATCAGCTAGTA 1170

RESULT 11

US-08-387-707-15
; Sequence 15, Application US/08387707
; Patent No. 6265563
; GENERAL INFORMATION:
; APPLICANT: EVANS, CHRISTOPHER J.
; APPLICANT: KEITH, DUANE E.
; TITLE OF INVENTION: OPIOID RECEPTOR GENES
; NUMBER OF SEQUENCES: 18
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: MORRISON & FOERSTER
; STREET: 2000 Pennsylvania Avenue, N.W. Suite 5500
; CITY: Washington
; STATE: DC
; COUNTRY: USA
; ZIP: 20006-1888
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent in Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/387,707
; FILING DATE: 10-SEP-1995
; CLASSIFICATION: 536
; ATTORNEY/AGENT INFORMATION:
; NAME: MURASHIGE, KATE H.
; REGISTRATION NUMBER: 29,959
; REFERENCE/DOCKET NUMBER: 22000-20526.20
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (202) 887-1500
; TELEFAX: (202) 887-0763
; INFORMATION FOR SEQ ID NO: 15:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1981 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; US-08-387-707-15

Query Match 52.5%; Score 1135.6; DB 3; Length 1981;
Best Local Similarity 77.4%; Pred. No. 1.6e-281;
Matches 1512; Conservative 0; Mismatches 410; Indels 31; Gaps 10;
Qy 9 GGCCTATAGGACAGGAGGAATGTGAGTGTGCTCGGTCCCTCCGCTGAGCGCTCCTC 68
Db 52 GGATACAAGCAGAGGAGGAATATCGACGCTCAG-ACGTTCCATTCTGCTTCGCGCTCTTC 110
Qy 69 TCTGTCTCAGCAGGACTGTTTCTGTAAGAAACAGCAGGAG-CTGTGGCAGCGCGGAAA 127
Db 111 TCTGGTTCCACTAGGGCTTGTCTTGTGAAGAACTGACGAGGCTAGGGCAGCTGTGAGA 170
Qy 128 GGAAGCGGCTGAGCGCTTGGAAACCGAAAGTCTCGGTGCTCTGCTGTACCTCGCACAG 187
Db 171 GGAAGAGGCTGGGGCGCTTGAACCCCGAACACTCTTGAAGTGTCTCAGTTACAGNCTACC 230
Qy 188 CGGTGCCCGCGCGCGCTCAGTACCATGAGCAGCGCTGCCCGCCACGACGCCAGCAA 247
Db 231 GAGTCCGCGAGGAGCAATTCAGAACCATGGACAGCAGCGCGCGCCAGGGAACATCAGCGA 290
Qy 248 TTGACTGTAGCTTGGCGTACTCAAGTTGCTCCCGAGACCCAGCCCCCGGTTCTCTGGGT 307

Db 291 CTGCTCTGACCCCTTAGCTCTCTGCAAGTTGCTCCCGACGCA-----CCTGGGCTCTGGGT 344
Qy 308 CAACTGTGCCACTTTAGATGGCAACCTGTGCGACCATCTGCGGTTCGGAACCGCACCAACCT 367
Db 345 CAACTGTGCCACTTTAGATGGAAACAGTTCGACCCATCTGCGGTCTTAACCCGCGGCT 404
Qy 368 GGGCGGAGAGACAGCCTGTGCCCTCCGACCGGCGCAGTCCCTCCATGATCAGCGCCAT 427
Db 405 TGGCGGGAACGACAGCCTGTGCCCTCAGAC---CGGACGCCCTTCCATGTCACAGCCAT 461
Qy 428 CACGATCATGGCCCTCTACTCCATCGTGTGCTGGGCTCTTCGGAACTTCCTGCTGT 487
Db 462 CACCATCATGGCCCTCTATTCTATCGTGTGTAGTGGGCCCTCTTTGGAACTTCCTGCT 521
Qy 488 CATGTATGTGATTGTGAGATACCAAGATGAAGACTGCCACCAACATCTACATTTTCAA 547
Db 522 CATGTATGTGATTGTGAAGATATACCAAAATGAAGACTGCCACCAACATCTACATTTTCAA 581
Qy 548 CTTGCTCTGGCAGATGCCCTTAGCCACCAAGTACCTTCCGCTTCCAGAGTGTGAATTACCT 607
Db 582 CTTGCTCTGGCAGATGCCCTTAGCCACTAGCACGCTGCCCTTTCAGAGTGTAACTACCT 641
Qy 608 AATGGAAATCGGCATTTGGAAACATCTTTGCAAGATAGTGTCTCCATGATGATGACTA 667
Db 642 GATGGAAACGTCGCCCTTTGGAAACATCTCTGCAAGATCGTGTCTCAATGACTACTA 701
Qy 668 TAAACATGTTACGACGATATTCACCTCTGACCACTGAGTGTGATGATGATGATGATGAT 727
Db 702 CAAACATGTTACCAAGTATCTTCACTCTGACCATGAGTGTGATGATGATGATGATGATGAT 761
Qy 728 CTGCCACCTGTCAAGGCCCTTAGATTTCCGTACTCTCCCGAAATGCCAAAATTTATCAATGT 787
Db 762 CTGCCACCGCGTCAAGGCCCTGATTTCCGTACTCCCGGAAATGCCAAAATTTATCAATGT 821
Qy 788 CTGCAACTGGATCCTCTCTTACGCCATGCTTCTCTGTAATGTTTCTGCTGCTGCTGCTGCT 847
Db 822 CTGCAACTGGATCCTCTCTTCTGCAATGCTTCTGCGGTAATGTTCTGCGCAACCAAAA 881
Qy 848 ATACAGGGAAGTTCCATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 907
Db 882 ATACAGGCAAGGTTCCATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 941
Qy 908 AAACCTCTGTGAAGATCTGTGTTTTCATCTTCCGCTTTCATTTAGCCAGTGTCTCATATTAC 967
Db 942 GAACTGTCTCAAAATCTGTCTTCTCATCTTCCGCTTTCATGTCGCGGCTCATCATCAC 1001
Qy 968 CGTGTCTATGAGTATGATGATCTTGGCCCTCAAGAGTGTCCGATGCTCTCTGGCTCCAA 1027
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Qy 1028 AGAAAGGACAGGAATCTTTCGAAGGATCACCAGGATGCTGCTGGTGTGCTGGTGTGCTGTGTT 1087
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Qy 1088 CATGCTCTGCTGAGTCTCCATTCACATTTACGTCATCATTAAAGCCTTGGTTTCAATPCCC 1147
Db 1122 TATGTCTGCTGAGCCCCCATCCATCTATGTCATCATCAAGACATGATCAGATTCC 1181
Qy 1148 AGAAATACGTTCCAGATGTTTCTTGGCACTTCTGCAATGCTGTAGTTTACAAACAG 1207
Db 1182 AGAAACCATTTCCAGACTGTTTCTGCGCACTTCTGCAATGCTGTGGTTTACAAACAG 1241
Qy 1208 CTGCTCTCAACCGAGTCTTTTATGCAATTTCTGAGTGAAGAACTTCAACAGTGTCTCAGAGA 1267
Db 1242 CTGCTCTCAACCGAGTCTTTTATGCGTTCCTGGATGAAACTTCAACAGTGTCTTATAGAGA 1301
Qy 1268 GTTCTGTATCCCAACCTTTCACCAATTCAGCAACAAACTCCACTCGAATTCGTGAGAA 1327
Db 1302 GTTCTGTATCCCAACCTTCTCCAAATTCGAAACAGCAAACTCTGCTCGAATTCGTGAGAA 1361
Qy 1328 CACTAGAGACCAACCTTCCACGCGCAATACAGTGGATAGAACTAATCATCAGCTAGAGAA 1387
Db 1362 CACTAGGGAACACCTTCCACGCGTAAATACAGTGGATCGAACTAAACCCAGCTAGAGAA 1421

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QY 1388 TCTGGAAGCAGAACTGCTCCGTTGCCCTAACAGGCTCTCATGCAATTCGACCTTCACC 1447
Db 1422 TCTGGAAGCAGAACTGCTCCGTTGCCCTAACAGGCTCTCATGCAATTCGACCTTCACC 1481
QY 1448 AAGCTTAGAAGCAGCACTGATGTGTGGAAGCAGGTTGCTTCAAGAAATGTGTAGGAGGCTCT 1507
Db 1482 AAACCTTAGAGGCTGCCACTACTTGGAAATCAGGTTGCTGTGAGGTTTGTGGAGGCTCT 1541
QY 1508 AATTCTTAGAAGTGCCTACTTTTAGGTCAATCAACCTCTTTCTCTCTCTGCGCACTCT 1567
Db 1542 GGTTTCTCGGAAAGCATCTGATCTGCATCAATTCAAAGTCAATTCCTCTCTGCGTATTC- 1600
QY 1568 GCTCGACATTAGAGGACAGCCAAAGTAGTGGAGCATTTGGAAGAAAGAAATATA 1627
Db 1601 ACGCTACACGTCAGAGACA---CTCAGACTGTGTCAAGCATCTCAGAAGAAAGACTGCA 1657
QY 1628 CCACACCGAGAGTCCAGTT--TGTGCAAGACACCCAGTGGAAACCAAAACCCATCTGTTG 1685
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QY 1686 ATGTGAATTGAAGTCAATCAAAAAGGTGACCCCTTCTGTCTGT-AAGATTTTATTTTCAAG 1744
Db 1718 ATGTGAATTGTGATCAACATAGAAGGTGACCCCTTCCCTATGTGGAATTTTAAATTTCAAG 1777
QY 1745 CAATATATTTAGACTCAACAAAGAAAGCA---TCTTTTGTAAAGTTCACCGTAGTA 1800
Db 1778 GAAATACTTATGATCTCATCAAGGAAAGAAATAGATGTCACTGTGTAAATTCACGTAGTG 1837
QY 1801 ACACATAAGTAAATGTCTACCTCTGATCAAAAGCACCTTTGAATGGAAGTCCGAGTCTTTT 1860
Db 1838 ATGCATAAGGAAAGCTACCTCTGACCTCTAGCCAGTCACTCTATGGAAGTTCCA 1897
QY 1861 TAGTGTTTTGCAAGGGAATGAATCCATATTTCTATTTTACACTTTTAACTTCAACTTAA 1920
Db 1898 TAGGGAATATGTAGGGAA-----AATGTTGCTTCCAAATTTAAATTTTACCTTTA 1948
QY 1921 AATTAGCATCTGGCTAAGGCATCATTTTCACT 1953
Db 1949 TGTATAGCTAGTTAAGACATCAGGGGCACT 1981
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RESULT 12

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US-08-405-271A-15
; Sequence 15, Application US/08405271A
; Patent No. 6432652
; GENERAL INFORMATION:
; APPLICANT: EVANS, CHRISTOPHER J.
; APPLICANT: KEITH, DUANE E.
; TITLE OF INVENTION: OPIOID RECEPTOR GENES
; NUMBER OF SEQUENCES: 25
; CORRESPONDENCE ADDRESS:
; ADDRESS: MORRISON & FOERSTER
; STREET: 2000 PENNSYLVANIA AVENUE, NW, Suite 5500
; CITY: WASHINGTON
; STATE: DC
; COUNTRY: USA
; ZIP: 20006-1888
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/405,271A
; FILING DATE: 14-MAR-1995
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: MURASHIGE, KATE H.
; REGISTRATION NUMBER: 29,959
; REFERENCE/DOCKET NUMBER: 22000-20526.22
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (202) 887-1500
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; TELEFAX: (202) 887-0763
; TELEX: 90-4030 MRSNFOERSWSH
; INFORMATION FOR SEQ ID NO: 15:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1981 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
US-08-405-271A-15
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Query Match 52.5%; Score 1135.6; DB 3; Length 1981;
Best Local Similarity 77.4%; Pred. No. 1.6e-281;
Matches 1512; Conservative 0; Mismatches 419; Indels 31; Gaps 10;

QY 9 GGCTATATAGGAGGAGGAATGTCTAGATGCTCCGTCAGCTCCGTCGCCCTCCGCTGACGCTCTC 68
Db 52 GGATACAGGAGAGGAGGAATATCGGACGCTAG-ACGTTTCCATTTCTGCTGCCGCTCTTC 110
QY 69 TCTGTCTCAGCCAGGACTGGTTTCTGTAAAGAAACAGCAGGAG-CTGTGGCAGCGCGAAA 127
Db 111 TCTGGTTCCACTAGGGCTTGTCTTGTAAAGAACTGACGGAGCCTAGGGCAGCTGTGAGA 170
QY 128 GGAAGCGGCTAGAGCGCTTGGAACCCGAAAGTCTCGTGTCTCTGCTACTCTGCGACAG 187
Db 171 GGAAGAGGCTGGGCGGCTGGAACCCGAAACACTCTTGTAGTGTCTCTCAGTTTACAGNCTACC 230
QY 188 CGGTGCCCGCCGCGCTGCTAGTACCATGGACAGCAGCGCTGCCGCCACGAAACGCCAGCAA 247
Db 231 GAGTCCGAGAGAGCATTCAGAACCATGGACAGCAGCGCGCGGCCAGGGAACATCAGCGA 290
QY 248 TTGCACCTGATGCCCTTGGCGTACTCAAGTTGCTCCCGAGCACCCAGCCCGGTTCTCTGGGT 307
Db 291 CTGCTCTGACCCCTTAGCTCTCTGCAAGTTGCTCTCCAGCA-----CCTGGCTCTCTGGCT 344
QY 308 CAACCTGTCCCACTTAGATGCGCAACCTGTCCGACCCATGCGGTCCGACCCGACCCACCACT 367
Db 345 CAACCTGTCCCACTTAGATGCGCAACCTGTCCGACCCATGCGGTCCGACCCGACCCACCACT 404
QY 368 GGGCGGAGAGACAGCGCTGTGCCCTCCGACCGGGGCGAGTCCCTCCATGATCAGCGGCAT 427
Db 405 TGGCGGGAACGACAGCCTGTGCCCTCAGAC---CGGACGCTTCCATGGTCAAGCAT 461
QY 428 CACGATCATGGCCCTTACTCTCAFTGCTGCTGGGTGGGCTCTTCGGAATCTCTCTGGT 487
Db 462 CACCATCATGGCCCTTACTCTCAFTGCTGCTGGGTGGGCTCTTCGGAATCTCTCTGGT 521
QY 488 CATGTATGTGATTGTCTAGATACACCAAGATGAAGACTGCCACCAACATCTACATTTTCAA 547
Db 522 CATGTATGTGATTGTGAAGATATACCAAAATGAAGACTGCCACCAACATCTACATTTTCAA 581
QY 548 CTTTGTCTGSCAGATGCCCTTAGCCACAGTACCTTCCGCTTCCAGAGTGTGAATTTACCT 607
Db 582 CTTTGTCTGSCAGATGCCCTTAGCCACAGTACCTTCCGCTTCCAGAGTGTGAATTTACCT 641
QY 608 AATGGGAACATGGCCATTTGGAAACCATCTTTGCAAGATAGTGTATCTCCATAGATTACTA 667
Db 642 GATGGGAACGTTGGCCCTTTGGAAACATCTCTGCAAGATCGTGATCTCAATAGACTACTA 701
QY 668 TAACATGTTTACAGAGCATATTCACCTCTGACCATGAGTGTGATCGATACATGTCAGT 727
Db 702 CAACATGTTTACAGAGCATATTCACCTCTGACCATGAGTGTGATCGATACATGTCAGT 761
QY 728 CTGCCACCTGTCAAGGCTTTAGATTTCCGCTTCCGCTTCCGCTTCCGCTTCCGCTTCCGCT 787
Db 762 CTGCCACCTGTCAAGGCTTTAGATTTCCGCTTCCGCTTCCGCTTCCGCTTCCGCTTCCGCT 821
QY 788 CTGCAACTGGATCCTCTCTTCCAGGCATTTGGTCTTTCTGTAAATGTTTCAATGCTACAAA 847
Db 822 CTGCAACTGGATCCTCTCTTCTCTGCAATTTGGTCTTCTCTCATCCCATGCTACTGGA 881
QY 848 ATACAGGCAAGGTTCCATAGATTGTACACTAACTTCTCTCATCCACTGCTGTCGGA 907
Db 882 ATACAGGCAAGGTTCCATAGATTGTACACTTCTCTCATCCCATGCTACTGGA 941
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Qy	908	AAACCTCGTGAAGATCTGTGTTTTCATCTTTGCGCTTCATTAATGCCAGTGTCTCATCTATAC	967
Db	942	GAACCTGCTCAAAATCTGTGTTCTTCTTCTGCGCTTCATCATGCCGGGCTCATCATCAC	1001
Qy	968	CGTGTGCTATGGACTGATGATCTTTGGCCTTCAGAGTGTCCGATGCTCTCTGGCTCCAA	1027
Db	1002	TGTGTGTTATGGACTGATGATCTTTACAGCTCAAGAGTGTCCGATGCTGTGGGCTCCAA	1061
Qy	1028	AGAAAGGACAGGAATCTTCCGAAGGATCCACGAGTGGTCTGGTGGTGGTGGCTGTGT	1087
Db	1062	AGAAAGGACAGGAACCTGCGCAGGATCACCCGGATGGTGTCTGGTGGTGGTGGTGTAT	1121
Qy	1088	CATCGTCTGCTGGACTCCCAATTCACATTTACGTCACTAATTAAGCCCTTGGTTACAATCCC	1147
Db	1122	TATTTGCTGCTGGACCCCATCCAGATCTATGTCACTCAAAAGCACTGATCACGATTCC	1181
Qy	1148	AGAACTACGTTCCAGACTGTTTCTTGGCACTTCTGCAATGCTCTAGGTTACACAACAG	1207
Db	1182	AGAAACCACTTTCAGACTGTGTTCTCTGGCACTTCTGCAATGSCCTTGGTTTACACAACAG	1241
Qy	1208	CTGCGCTCAACCCAGTCTCTTATGCATTTCTGGATGAAACTTCAAACGATGCTTCAGAGA	1267
Db	1242	CTGCGTGAACCCAGTCTCTTATGGTTCTCTGGATGAANAATCTCAACGATGTTTLAGAGA	1301
Qy	1268	GTTCTGTATCCCAACTCTTCCAACTTGAGCAACAAACTCCACTCGAATTCGTGAGAA	1327
Db	1302	GTTCTGCATCCCAACTTCTCTCCAAATCGAACAGCAAAACTCTGCTCGAATCCGTCAAAA	1361
Qy	1328	CATPAGAGACACCCCTCCAGCGGCAATAAGTGGATAGAACTAATCATCATCAGCTAGAAAA	1387
Db	1362	CACTAGGGAAACACCCCTCCAGCGCTAATACAGTGGATCGAACTAACACCAGCTAGAAAA	1421
Qy	1388	TCTGGAGCAGAACTGCTCGTGGTCCCTTAACAGGGTCTCATGCCATTCGACCTTCACC	1447
Db	1422	TCTGGAGCAGAACTGCTCATTTGCCCTTAATCGGGTCCCAAGCCATCCAGACCTTCGCT	1481
Qy	1448	AAGCTTAGAGCCACCATGTATGGGAAGCAGGTTGCTTCAAGAAATGTGTAGGAGGCTCT	1507
Db	1482	AACTTAGAGGCTGCCATCTACTTGGAAATCAGGTTGCTGTCTGAGGTTGTGGGAGGCTCT	1541
Qy	1508	AAATCTCTAGGAAAGTGCCTACTTTTAGTGTCATCCAACTCTTTTCTCTCTGCGCACTCT	1567
Db	1542	GGTTTCTGGAAAAGCATCTGATCTGCATCATTCAAAGTCATTCCTCTCTGCGCTATTC-	1600
Qy	1568	GCTCTGCACATTAGAGGGACAGCCAAAGTAGTGGAGCATTTGGAGGGAAGCAATATA	1627
Db	1601	ACGCTACACGCTCAGAGACA---CTCAGACTGTGTCAAGCACTCAGAAGGAAGACTGCA	1657
Qy	1628	CCACACGAGAGTCCAGTT--TGTGCAAGACACCCAGTGGAAACCAAAACCCATCGTGGT	1685
Db	1658	GGCCACTACTGAATCCAGCTCATGTACAGAAACATCCAAATGGACCAATACTCTGTGGT	1717
Qy	1686	ATGTGAATTTGAAGTCATCATAAAAAGGTGACCCCTTCTGTCTGT--AAGATTTTATTTTCAAG	1744
Db	1718	ATGTGAATTTGTGATCAACATAGAAGGTGACCCCTTCCCTATGTGGAAATTTTAAATTTCAAG	1777
Qy	1745	CAAAATTTATGACTCAACAAAGAGAACCA----TCTTTTGTAGTTTACCGTAGTA	1800
Db	1778	GAATACTATATGATCTCATCAAGGGAAAAATAGATGTCACTGTGTAATTTCACTGTAGTG	1837
Qy	1801	ACATATAAGTAATGTCTACCTCTGATCAAGACACCTTGAATGGAAGGTCGAGTCTTTTT	1860
Db	1838	ATGCATAAGGAAAAGCTTACCTCTGACCTCTAGCCAGTCAACCTCTATGGAAGTTCCA	1897
Qy	1861	TAGTGTTTTTCGAAAGGAATGAATCCATTAATTTATTTTAGACTTTTAACTTCAACTTAA	1920
Db	1898	TAGGGAATATGTGGAGNA-----AATGTTGCTCCAAATTAATTTTCAACCTTTA	1948
Qy	1921	AATTAGCATCTGGCTAAGGCATCATTTTTCACCT	1953
Db	1949	TGTTATAGTCTTAGTTAAGACATCAGGGGCACTCT	1981

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RESULT 13
US-08-430-286A-1
; Sequence 1, Application US/08430286A
; Patent No. 6225080
; GENERAL INFORMATION:
; APPLICANT: Uhl, George R.
; APPLICANT: Eppler, C. Mark
; APPLICANT: Wang, Jai-Bel
; TITLE OF INVENTION: Mu-Subtype Opioid Receptor
; NUMBER OF SEQUENCES: 14
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Darby & Darby PC
; STREET: 805 Third Avenue
; CITY: New York
; STATE: New York
; COUNTRY: US
; ZIP: 10022
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/430,286A
; FILING DATE: 28-APR-1995
; CLASSIFICATION: 536
; ATTORNEY/AGENT INFORMATION:
; NAME: Robinson, Joseph R.
; REGISTRATION NUMBER: 33,448
; REFERENCE/DOCKET NUMBER: 0646/1A843-US5
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 212-527-7700
; TELEFAX: 212-753-6237
; TELEX: 236687
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2135 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA to mRNA
; ORIGINAL SOURCE:
; ORGANISM: Rattus rattus
; IMMEDIATE SOURCE:
; CLONE: mu receptor cDNA
; US-08-430-286A-1

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Query Match	51.7%	Score 1118.8	DB 3	Length 2135
Best Local Similarity	78.2%	Pred. No. 3.4e-277		
Matches 1458	Conservative 0	Mismatches 367	Indels 39	Gaps 8
QY	190	GTGCCCGCCGGCTGATGATACCATGACACGACGCGTCCCGCCACGACGCCAGCAATT	249	
DB	8	GTCCGCACGACGCCCTTCAGCACCATGATGACACGACACCGGCCACAGGGAACACCGACGACT	67	
QY	250	GCATGTGATCCCTTCGCGTGACTCAAGTTGTCTCCCGACGACCCAGCGCCCGGTTCTCTGGGTGCA	309	
DB	68	GCTCAGACCCCTTAGCTGCTCAGGCAAGTTGCTCTCCGACGAC-----CTTGGCTCTGGCTCA	121	
QY	310	ACTTGTCCCACTTAGATGGCAACCTGTCCGACCCATCGGTCGGAACCGCACCAACCTGG	369	
DB	122	ACTTGTCCCACTTGATGGCAACCCAGTCCGATCCATGCGGTCTGAAACCGCACCGGGCTTG	181	
QY	370	GCGGGAGAGACAGCCTGTGCCCTCCGACCGCGGCGAGTCCCTCCATGATCAACGCCATCA	429	
DB	182	GCGGGAAACGACAGCCTGTGCCCTCAGAC---CGGACGCCCTTCATGGTCAAGCCATTA	238	
QY	430	CGATCATGGCCCTCTACTCCATCGTGTGCGTGGGGGCTCTTCGGAAAACTTCTCGGTGCA	489	
DB	239	CCATCATGGCCCTCTACTCTCATCGTGTGTAGTGGGCGCTCTTCGAAAACTTCTCGGTCA	298	
QY	490	TGTATGTGATTGTGCAGATACACCAAGATGAAGACTGCCCAACCAATCTATGATTTTCAACC	549	

Db 299 TGTATGTGATGTTGAAGATACACCAAAATGAAGACTGCCACCAATCTACTACATTTTCAACC 358
Qy 550 TTGCTCTGGCAGATGCTTTAGCCACAGTACCCCTGCGCTTCCAGAGTGTGAATTTACCTAA 609
Db 359 TTGCTCTGGCAGAGCCCTTAGCCACAGTACACTGCCCCCTTTTCAGAGTGTCAACTACCTGA 418
Qy 610 TGGGAACATGCCCCATTTTGGAAACCACTCTCTGCAAGATCGTGATCTCAATAGATTACTACA 478
Db 419 TGGGAACATGCCCCCTTAGCCACCACTCTCTGCAAGATCGTGATCTCAATAGATTACTACA 478
Qy 670 ACATGTTTCCACAGCATATTTACCCCTCTGCACCATGAGTGTGATCGATACATATTCGAGTCT 729
Db 479 ACATGTTTCCACAGCATATTTACCCCTCTGCACCATGAGCGTGCGTACATTTGCTGTCT 538
Qy 730 GCCACCTGTCAAGCCCTTAGATTTTCGTAATTCGCCGAAATGCCAAATATCAATGTCT 789
Db 539 GCCACCCAGTCAAAAGCCCTGGATTTCCGTAATTCGCCGAAATGCCAAATATTCGTAACGCTCT 598
Qy 790 GCAACTGATCTCTCTTTCAGCCATTTGGTCTTCCGTGTAATGTTTTCATGGCTACACAAAT 849
Db 599 GCAACTGATCTCTCTTTCAGCCATTTGGTCTTCCGTGTAATGTTTTCATGGCTACACAAAT 658
Qy 850 ACAGCAAGGTTCCATAGATTGTACACTAAATTTCTCTCATCCAACTGGTACTGGGAAA 909
Db 659 ACAGCGAGGTTCCATAGATTGTACACTAAATTTCTCTCATCCCACTGGTACTGGGAGA 718
Qy 910 ACCTGCTGAAGATCTGTGTTTTCATCTTTCGCTTCAATTAATGCGAGTGCTCATATTTACCG 969
Db 719 ACCTGCTCAAAATCTGTGTTTTCATCTTTCGCTTCAATTAATGCGAGTGCTCATATTTACCTG 778
Qy 970 TGTGCTATGGAATGATCTTTCGCTTCAAGAGTGTCCGATGCTCTCTGGCTCCAAAG 1029
Db 779 TGTGTTACGGCTGATGATCTTTCGCTTCAAGAGTGTCCGATGCTCTCTGGCTCCAAAG 838
Qy 1030 AAAAGGACAGGAATCTTCCAGAGGATCACAGGATGGTCTGGTGGTGGTCTGTGTCA 1089
Db 839 AAAAGGACAGGAATCTTCCAGAGGATCACCCGAGTGGTCTGGTGGTGGTCTGTATTA 898
Qy 1090 TCGTCTGCTGGAATCCCAATTCATATTTACGTCATCATTTAAAGCCCTTGGTTACAATCCAG 1149
Db 899 TCGTCTGCTGGAATCCCAATTCATATTTACGTCATCATTTAAAGCCCTTGGTTACAATCCAG 958
Qy 1150 AAACTAGCTTCGAGATGTTTTCGCTTTCGCTTTCGCTTTCGCTTTCGCTTTCGCTTTCGCT 1209
Db 959 AAAACACATTTTCAGACCGTTTTCGCTTTCGCTTTCGCTTTCGCTTTCGCTTTCGCTTTCGCT 1018
Qy 1210 GCCTCAACCCAGTCTCTTATGATTTCTGGATGAAATCTTCAACGATGCTTTCAGAGAGT 1269
Db 1019 GCCTGAATCCAGTCTCTTATGCTTTCGCTTTCGCTTTCGCTTTCGCTTTCGCTTTCGCTTTCGCT 1078
Qy 1270 TCTGTATCCCAACCTCTTCCAAATTTAGGACCAAAATCTCCACTCGAATTCGTTCAGAAC 1329
Db 1079 TCTGCATCCCAACCTCTTCCAAATTTAGGACCAAAATCTCCACTCGAATTCGTTCAGAAC 1138
Qy 1330 CTAGAGACCAACCTCTTCCAAATTTAGGACCAAAATCTCCACTCGAATTCGTTCAGAAC 1389
Db 1139 CTAGAGACCAACCTCTTCCAAATTTAGGACCAAAATCTCCACTCGAATTCGTTCAGAAC 1198
Qy 1390 TGGAGACAGAACTCTCTTTCGCTTTCGCTTTCGCTTTCGCTTTCGCTTTCGCTTTCGCTTTCGCT 1449
Db 1199 TGGAGACAGAACTCTCTTTCGCTTTCGCTTTCGCTTTCGCTTTCGCTTTCGCTTTCGCTTTCGCT 1258
Qy 1450 GCTTAGAGCCCACTTCTTTCGCTTTCGCTTTCGCTTTCGCTTTCGCTTTCGCTTTCGCTTTCGCT 1509
Db 1259 GCTTAGAGCCCACTTCTTTCGCTTTCGCTTTCGCTTTCGCTTTCGCTTTCGCTTTCGCTTTCGCT 1318
Qy 1510 TTCTCTAGGAAGTCTTCTTTCGCTTTCGCTTTCGCTTTCGCTTTCGCTTTCGCTTTCGCTTTCGCT 1569
Db 1319 TTCTCTAGGAAGTCTTCTTTCGCTTTCGCTTTCGCTTTCGCTTTCGCTTTCGCTTTCGCTTTCGCT 1375
Qy 1570 TCTGCACATTTAGAGGACAGCCAAAGTAAAGTGGAGCATTTTGAAGGAAAGGAATATACC 1629

Db 1376 TCTGCACATGAGAGT---GCTCAGACTGTATCAAGTACTCAGAAAGAGAGACTACCG 1432
Qy 1630 ACACCGAGGAGTCCAGTTTGTGCAAGACACCCAGTGA-----ACCAAAACCCA 1678
Db 1433 ACATCTCTGAATCCAGCTCATGTACAGAACCATCTGAAACACCCAGTGGACCAATGCT 1492
Qy 1679 TCGTGGTATGTGAATTTGAAGTTCATATAAAAGGTGACCCCTTCTCTGTAAAGATTTT--A 1736
Db 1493 CTGTGGTATGTGAATTTGATCATATAGAGGTGACCCCTCTCTATGTAGAAATTTTAT 1552
Qy 1737 TTTTCAAGCAAAATTTATGACCTCAACCAAGAAAGA-ACATCTTTTGTAAAGTTCACCG 1795
Db 1553 TTTTCAAGCAAAATTTATGACCTCATCAAGAAATAATGTCTACTTGTAAATTCACGT 1612
Qy 1796 TAGTAAACATTAAGTAAATGCTTACCTCTGATCAAGACCTTGAATGGAAGGTCCGAGT 1855
Db 1613 TAGTGATACATAAAGTAAATGCTTACCTCTGACCTCTGACCC-----AGTCAACCTT 1662
Qy 1856 CTTTTTAGTGTGTTTTCGAAGGGAATGAATCCATTTATTTTATTTAGACTTTTAACTTCAA 1915
Db 1663 CTGTAGAGAGTTCAGTCCCTTTTGTGATGGAATACATCATTTCCAACCTTAAACCTTTTAC 1722
Qy 1916 CTTAAAAATTAGCATCTGGCTAAGGCATCATTTTCCCTCCTTCTGTTGTTGTTGTTGTTGTTGTT 1975
Db 1723 CTTGAAGTTATGTTCTAGTTAAGACATCAGGGGACCTCGCTTTCTTGGTTTGTATTGT 1782
Qy 1976 TTAATAAAATAACATCTCTTTTCATCTAGCTTCCATATTTGCAAGGGAAGAGATAGCATG 2035
Db 1783 TTGAAGAAGACGACATCTTCTCTCTAGCTGTGTGTGTTGAAATGAAAGGATTTGAAAGC 1842
Qy 2036 AAAG 2039
Db 1843 ACAG 1846

RESULT 14

US-08-889-108-1
; Sequence 1, Application US/08889108
; Patent No. 6103492
; GENERAL INFORMATION:
; APPLICANT: Yu, Lei
; TITLE OF INVENTION: Mu Opioid Receptors: Compositions and Methods
; NUMBER OF SEQUENCES: 17
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Arnold, White & Durkee
; STREET: P. O. Box 4433
; CITY: Houston
; STATE: TX
; COUNTRY: USA
; ZIP: 77210-4433
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/889,108
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/305,518
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Wilson, Mark B.
; REGISTRATION NUMBER: 37,259
; REFERENCE/DOCKET NUMBER: INDA005\WIM
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 512-418-3000
; TELEFAX: 512-474-7577
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1618 base pairs
; TYPE: nucleic acid

; STRANDEDNESS: single	
; TOPOLOGY: linear	
; MOLECULE TYPE: DNA (cdNA)	
; FEATURE:	
; NAME/KEY: CDS	
; LOCATION: 214..1410	
; US-08-889-108-1	
Query Match 50.2%; Score 1087.6; DB 3; Length 1618;	
Best Local Similarity 83.2%; Pred. No. 3.2e-269;	
Matches 1312; Conservative 0; Mismatches 249; Indels 15; Gaps 6;	
QY	9 GCGTATAGCCAGAGGAGATGTGATGCTCAGTGTGCTCGGTCCCTCCGCTGACGCTCCTC 68
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QY	69 TCTGTCTCAGCCAGGACTGGTTTCTGTAAAGAACAGCAGGAG-CTGTGGCAGCGGCGAAA 127
Db	70 TCTGGTTCCACTAGGCGTGGTCCATGTAAAGATCTGACGGAGCCTAGGGCAGCTGTGAGA 129
QY	128 GGAAGCGGTGAGGCGCTTGGAAACCGGAAAGTCTCGGTGCTCTCGGTACCTCGCACAG 187
Db	130 GGAAGAGGCTGGGGCGGTGGAACCGGAAAGTCTGAGTGTCTCAGTTTACAGCCCTAC-C 188
QY	188 CGGTGCCCGCCGCGCTCAGTACCATGACAGCAGCGCTGCCGCCACGAAACGCCAGCAA 247
Db	189 TAGTCGCGCAGCAGCGCTTTCAGACCATGACAGCAGCAGCAGCGGCCAGGGAACACGCGA 248
QY	248 TTGCACTGATGCTTGGCGTACTCAAGTTGCTCTCCAGCAGCCAGCGCCCGGTTCTTGGGT 307
Db	249 CTGCTCAGACCCCTTAGCTCAGGCAAGTTGCTCCCGCAGCA-----CCTGGCTCTGGCT 302
QY	308 CAATTGTCCCTTAGATGGCAACCTGTTCGACCATGCGTCCGACCGGTCGGAACCGCACCACT 367
Db	303 CAATTGTCCCACTGTGATGGCAACCACTGCGGCTCCGATCCAGTGTGAAACCGCACCGGGCT 362
QY	368 GGGCGGAGAGCAGCGCTGCGCTCCGACCGGCGGAGTCCCTCCATGATCAGCGCCAT 427
Db	363 TGGCGGGAACGACAGCGCTGTGCCCTCAGAC---CGCAGCCCTTCCATGGTTCAGCCAT 419
QY	428 CAGGATCATGGCCCTCTACTCCATCGTGTGCGTGGGGCTCTTCGGAACCTTCTGCT 487
Db	420 TACCATCATGGCCCTCTACTCTATCGTGTGTGTAGTGGGCTCTTCGGAACCTTCTGCT 479
QY	488 CATGTATGTATGTTCAGATACACCAAGATGAAGACTGCCACCAACATCTACATTTTCAA 547
Db	480 CATGTATGTATGTAAAGATACACCAAAATGAAGACTGCCACCAACATCTACATTTTCAA 539
QY	548 CCTGTCTGGCAGATGCCCTTAGCCACCACTGCTGCCCTCCAGAGTGTGAATTACCT 607
Db	540 CCTGTCTGGCAGACGCGCTTAGCGACCACTGCTGCCCTTTCAGAGTGTCAATCTCT 599
QY	608 AATGGGAACATGGCCATTTTGGAAACCATCTTTTGAAGATAGTGTATCCATAGATTACTA 667
Db	600 GATGGGAACATGGCCCTTCGGAACCATCTCTCGAAGATGCTGATCTCAATAGATTACTA 659
QY	668 TAAATGTTTCCAGCATATTCACCTCTGCAACCATGAGTGTGATGATGATGATGATGAT 727
Db	660 CAACATGTTTCCACGACATATTCACCTCTGCAACCATGAGCGTGGACCGCTTACATTTGCT 719
QY	728 CTGCCACCTGTCAAGCGCTTAGATTTCCGTACTCTCCCGAAATGCCAAATATCAATGT 787
Db	720 CTGCCACCTGTCAAGCGCTTGGATTTCCGTACTCTCCCGAAATGCCAAATATCGTCAACGT 779
QY	788 CTGCACTGATCTCTCTTTCAGCCATTTGCTTCTCTGTAATGTTCATGGCTACAACAAA 847
Db	780 CTGCACTGATCTCTCTTCTGCACTGCTCTGCTGCTGTAATGTTCATGGCAACCAAAA 839
QY	848 ATACAGCAAGTTTCCATAGATTGTACATAAATCTCTCATCTCCAACTGGTACTGGGA 907
Db	840 ATACAGCGGGGTCCATAGATTGCACCTCTCAGTTTCTCCCAACCACTGGTACTGGGA 899
QY	908 AAACCTCGTGAAGATCTGTGTTTTTCATCTTCGCGCTTCATTTATGCCAGTGTCTCATTTAC 967

Db	900 GAACCTGCTCAAAATCTGTGTCTTTATCTTCGCTTTTCATATGCGATCCTCATCATCAC 959
QY	968 CGTGTGCTATGAGTGTGATGCTTTCGCGCTCAAGAGTGTCCGATGCTCTCTGGCTCCAA 1027
Db	960 TGTGTGTTACGCGCTGATGATCTTACGACTCAAGAGCGTTGCGATGCTATCGGGCTCCAA 1019
QY	1028 AGAAAGGACAGGAATCTTTCGAAGGATCACAGAGATGGTGTGTFGGTGGTGTGTGT 1087
Db	1020 AGAAAGGACAGGAATCTGCGCAGGATCACCGGATGGTGTGTFGGTGTGTFGGTGTAT 1079
QY	1088 CATGCTGTGCTGAGTCTCCATTCACATTTACGTATCATTAAGCCTTGGTTACATATCC 1147
Db	1080 TATGCTGTGCTGAGCCCCCATCCATCTACGTATCATCAAGCGCTGATCAGGATTC 1139
QY	1148 AGAAACTAGTTTCAGAGCTGTTTCTTGGCACTTCTGCAATGCTCTAGGTTTACAAACAG 1207
Db	1140 AGAAACACATTTTCAGACCGTTTCTGGCACTTCTGCAATGCTTTCGGGTTACACGACAG 1199
QY	1208 CTGCTCAACCCAGTCTTTTATGCAATTTCTGGATGAAAACCTTCAACGATGCTTCAGAGA 1267
Db	1200 CTGCTGAATCCAGTTCTTTAGCGCTTCTTGGATGAAAACCTTCAAGCGATGCTTCAGAGA 1259
QY	1268 GTTCTGTATCCCACTCTTCCAACTTTGAGCAACAAAACCTCCACTCGAATTCGTCAGAA 1327
Db	1260 GTTCTGTATCCCACTCTTCCAACTTTGAGCAACAAAACCTCCACTCGAGTCCGTCAGAA 1319
QY	1328 CACTAGACACACCTCCAGCGCAATACAGTGTGATAGAACTAATCATCAGCTAGAAAA 1387
Db	1320 CACTAGGAAACATCCCTCCAGCGTAAATACAGTGTGATGAACTAACCCAGCTAGAAAA 1379
QY	1388 TCTGGAAGCAGAAAACCTGCTCCGCTTTCGCTTAAACAGGCTCTCATGCTCCGACCTTCAC 1447
Db	1380 TCTGAGGACAGAACTGCTCCATTTGCCCTTAACTGGGCTCTCACACCATCCAGACCTCGCT 1439
QY	1448 AAGCTTAGAAGCCACCATGTATGTGGAAGCAGGTTGCTTCAAGAATGTGTAGAGGCTCT 1507
Db	1440 AAGCTTAGAGGCGCCATCTACGTGGAATCAGGTTGCTGTCTAGGGGTGTGTGGAGGCTCT 1499
QY	1508 AATCTCTAGGAAGTGTCTTCTTTAGGTATCAACCTCTTCTCTCTCTGCGCACTCT 1567
Db	1500 GGTTCCTCTGAGAAA---CCATCTGATCTGCAATCAAGTCAATCTCTCTCTGCGTACTTC 1556
QY	1568 GCTCTGCACATPAGAG 1583
Db	1557 ACTCTGCACATGAGAG 1572

RESULT 15

US-08-889-108-3

; Sequence 3, Application US/08889108

; Patent No. 6103492

; GENERAL INFORMATION:

; APPLICANT: YU, Lei

; TITLE OF INVENTION: Mu Opioid Receptors: Compositions and Methods

; NUMBER OF SEQUENCES: 17

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Arnold, White & Durkee

; STREET: P. O. Box 4433

; CITY: Houston

; STATE: TX

; COUNTRY: USA

; ZIP: 77210-4433

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; COMPUTER: IBM PC compatible

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: Patent In Release #1.0, Version #1.25

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/08/889,108

; FILING DATE:

; CLASSIFICATION:

; PRIOR APPLICATION DATA:


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; APPLICATION NUMBER: 08/305,518
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Wilson, Mark B.
; REGISTRATION NUMBER: 37,259
; REFERENCE/DOCKET NUMBER: INDA005\WIM
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 512-418-3000
; TELEFAX: 512-474-7577
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1618 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (cDNA)
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 339..1235
US-08-889-108-3

Query Match          50.2%; Score 1087.6; DB 3; Length 1618;
Best Local Similarity 83.2%; Pred. No. 3.2e-269;
Matches 1312; Conservative 0; Mismatches 249; Indels 15; Gaps 6;

Qy 9  GGCTATAGCAGAGAGATGTCAGATGCTCAGCTCGGTCCGCTCCGCTCGAGCTCCTC 68
Db 11 GGCTACAAGCAGAGAGAAATATCAGACGCTCAG-ACGTTCCCTTCTGCTCCGCTCTTC 69

Qy 69 TCTGTCTCAGCCAGGACTGGTTTCTGTAAAGAAACAGCAGGAG-CGTGGCAGCGCGAAA 127
Db 70 TCTGTTCCACTAGGGCTGGTCCATGTAAAGATCTGACGGAGCCTAGGGCAGCTGTGAGA 129

Qy 128 GGAAGCGCTGAGGCGCTTGGAAACCCGAAAGTCTCGGTGCTCTCTGGTACCTCGCACAG 187
Db 130 GGAAGAGCTGGGGCGCTGGAAACCCGAAAGTCTGAGTGTCTCAGTTACAGCCCTAC-C 188

Qy 188 CGGTCCCGCGCGCGCTGAGTACATGGAAGAGCGCTGCGCCCGCAGAGCGCCAGAA 247
Db 189 TAGTCCGAGCAGAGGCTTTTCCAGACCATGGAAGAGCACCAGCGCCCGGAAACACAGCGA 248

Qy 248 TTGCACTGATGCTTGGCGTACTCAAGTTGCTCCCGACACCGCCCGGTCTCTGGGT 307
Db 249 CTGCTCAGACCCCTTAGCTCAGGCAAGTTGCTCCCGACA-----CTGGCTCTGGCT 302

Qy 308 CAACTTGTCCACTTATGATGGCAACCTTGTCCGACCCATGCGGTCCGAACCCGACCAACCT 367
Db 303 CAACTTGTCCACTTATGATGGCAACCACTCCGATCCATGCGGTCTGAACCCGACCGGGCT 362

Qy 368 GGGCGGGAGACAGCCTGTGCGCTCCGACCGGGGCGAGTCCCTCCATGATCAGGGCCAT 427
Db 363 TGGCGGGAACGACAGCCTGTGCGCTCAGC---CGGCGAGCCTTCCATGGTCAAGCCAT 419

Qy 428 CACGATCATGGCCCTCTACTCATCGTGTGGTGGGGTCTTTCGGAAACTTCTCTGGT 487
Db 420 TACCATCATGGCCCTCTACTCATCGTGTGTAGTGGGCTCTTTCGGAAACTTCTCTGGT 479

Qy 488 CATGATGATGATGTTCAGATACACCAAGATGAAGACTGCCACCAACATCTACATTTCAA 547
Db 480 CATGATGATGATGTGAAGATACACCAAAATGAAGACTGCCACCAACATCTACATTTCAA 539

Qy 548 CTTGCTCTGGCAGATGCTTAGCACCAGTACCTGCGCTCCAGAGTGTGAATTACCT 607
Db 540 CTTGCTCTGGCAGAGCGCTTAGCGACCACTACACTGCGCTTTCAGAGTGTCAACTACCT 599

Qy 608 AATGGAAACATGGCAATTTGGAACCATCTCTTGAAGATAGTGATCTCCATAGATTACTA 667
Db 600 GATGGAAACATGGCCCTTCGGNACCCTCTCTGGAAGATCGTGATCTCAATAGATTACTA 659

Qy 668 TAACATGTTACCCAGCATATTCACCCCTCTGCACCCATGAGTGTGATCGATACATTTGCAGT 727
Db 660 CAACATGTTACCCAGCATATTCACCCCTCTGCACCATGAGCGGTGGACCGCTACATTTGCTGT 719
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Qy 728 CTGCCACCTGTCAAGGCCTTAGATTTCCGTTACCTCCCGAAATGCCAAAATTATCAATGT 787
Db 720 CTGCCACCCAGTCAAAGCCCTGGATTTCCGTACCCCGGAAATGCCAAAATCGTCAAGCT 779

Qy 788 CTGCAACTGGATCCTCTCTTTCAGCCATTTGGTCTTCTGTAAATGTTCAATGCTACAAAAA 847
Db 780 CTGCAACTGGATCCTCTCTTTCGCAATCGGTCTGCTGTAAATGTTCAATGCTACAAAAA 839

Qy 848 ATACAGGCAAGGTTCCATAGATTTGTACACTAAACATTTCTCTCATCCACCTGCTACTGGGA 907
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Qy 908 AAACCTCGTGAAGATCTGTGTTTTCATCTTCGCTTCAATATATGCAAGTGTCTCATCATAC 967
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Qy 968 CGTGTCTATGGACTGATGATTTTGGCGCTCAAGAGTGTGCGCATGTCTCTGGCTCAA 1027
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Qy 1028 AGAAAGGACAGGAACTTTCGAAGGATCACCAGGATGGTGTGCTGGTGGTGGCTGTGTT 1087
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Db 1080 TATCGTCTGTGGACCCCATCCACATCTAGTCTCATCTAAAGCGCTGATCAGATTC 1139

Qy 1148 AGAAACTACGTTTCAGACTGTTTCTTGGCACTTCTGCAATGCTCTAGGTTACAAACAG 1207
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Qy 1268 GTTCTGATCCCAACCTCTTCCAACTTGAGCAACAAACTCCCACTCGAATTCGTCAGAA 1327
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Qy 1328 CACTAGAGACCAACCCCTCCAGCGCAATACAGTGGATAGAACTAATCATAGCTAGAAAA 1387
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Qy 1388 TCTGGAAGCAGAAACTGCTCGTTGCCCTAACAGGCTCTCATGCCATTCGACCTTCACC 1447
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Qy 1508 AATTCTCTAGGAAAGTGCCTACTTTTATAGTGCATCCAACTCTTTCTCTCTCTGGCCACTCT 1567
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Qy 1568 GCTCTGCACATTAGAG 1583
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GenCore version 5.1.6
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(without alignments)
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Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 9793542 seqs, 4134683005 residues

Total number of hits satisfying chosen parameters: 19587084

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	2163	99.9	2165	3	US-09-883-839-9
2	2147	99.2	2162	3	US-09-883-839-1
3	2147	99.2	2162	5	US-10-225-567A-185
4	2147	99.2	2162	5	US-10-305-720-1379
5	2147	99.2	2162	9	US-10-500-050-1
6	2145.4	99.1	2162	3	US-09-883-839-3
7	2145.4	99.1	2162	3	US-09-883-839-5
8	2145.4	99.1	2162	3	US-09-883-839-7
9	2145.4	99.1	2162	3	US-09-883-839-8
10	2097.4	96.9	2149	5	US-10-080-917-12
11	2086.4	96.4	2279	5	US-10-477-714-33
12	1340.4	61.9	1473	5	US-10-080-917-13
13	1332.2	61.5	1431	5	US-10-080-917-6
14	1186.8	54.8	1203	3	US-09-826-509-544
15	1186.8	54.8	1203	8	US-10-925-095-544
16	1185.6	54.8	1388	5	US-10-185-083-26
17	1184.2	54.7	1464	5	US-10-185-083-25
18	1166	53.9	2229	3	US-09-214-904-1
19	1152.2	53.2	1182	3	US-09-826-509-546
20	1152.2	53.2	1182	8	US-10-925-095-546
21	1146.2	52.9	1245	5	US-10-080-917-8
22	1144.4	52.9	1176	3	US-09-935-061-11
23	1144.4	52.9	1176	7	US-10-692-071-11

24	1135.6	52.5	1981	3	US-09-823-114-15	Sequence 15, Appl
25	1135.6	52.5	1981	6	US-10-290-748-15	Sequence 15, Appl
26	1115.6	51.5	1176	3	US-09-935-061-13	Sequence 13, Appl
27	1115.6	51.5	1176	7	US-10-692-071-13	Sequence 13, Appl
28	1113.4	51.4	1197	3	US-09-935-061-15	Sequence 15, Appl
29	1113.4	51.4	1197	7	US-10-692-071-15	Sequence 15, Appl
30	1092.2	50.4	1239	5	US-10-080-917-10	Sequence 10, Appl
31	1087.6	50.2	1618	3	US-09-841-720-1	Sequence 1, Appl
32	1087.6	50.2	1618	3	US-09-841-720-3	Sequence 3, Appl
33	1059.6	48.9	1610	3	US-09-761-962-16	Sequence 16, Appl
34	1059.6	48.9	1610	5	US-10-283-300-16	Sequence 16, Appl
35	1009.4	46.6	1614	5	US-10-185-083-16	Sequence 17, Appl
36	981.4	45.3	1569	5	US-10-185-083-17	Sequence 17, Appl
37	979.2	45.2	1440	5	US-10-185-083-15	Sequence 24, Appl
38	908	41.9	1695	5	US-10-185-083-24	Sequence 4, Appl
39	905	41.8	1542	3	US-09-761-962-4	Sequence 4, Appl
40	905	41.8	1542	5	US-10-283-300-4	Sequence 11, Appl
41	903.6	41.7	1365	3	US-09-761-962-11	Sequence 11, Appl
42	903.6	41.7	1365	5	US-10-283-300-11	Sequence 51, Appl
43	903.6	41.7	1373	5	US-10-185-083-51	Sequence 1, Appl
44	903.6	41.7	1423	3	US-09-761-962-1	Sequence 1, Appl
45	903.6	41.7	1423	5	US-10-283-300-1	Sequence 1, Appl

ALIGNMENTS

RESULT 1

US-09-883-839-9
; Sequence 9, Application US/09883839
; Publication No. US20040209250A1
; GENERAL INFORMATION:
; APPLICANT: Kreek, Mary Jeanne
; APPLICANT: Laforge, Karl Steven
; TITLE OF INVENTION: Alleles of the Human Mu Opioid Receptor,
; TITLE OF INVENTION: Diagnostic Methods Using Said Alleles, and Methods of
; TITLE OF INVENTION: Treatment Based Thereon
; FILE REFERENCE: 600-1-266N
; CURRENT APPLICATION NUMBER: US/09/883,839
; CURRENT FILING DATE: 2001-06-18
; PRIOR APPLICATION NUMBER: 60/212,225
; PRIOR FILING DATE: 2000-06-16
; NUMBER OF SEQ ID NOS: 10
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 9
; LENGTH: 2165
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: 2066..2094
; OTHER INFORMATION: n = A,T,C or G
US-09-883-839-9

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Best Local Similarity 100.0%; Pred. No. 0;
Matches 2165; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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DB	61	CGCTCTCTCTGTCTCAGCCAGGACTGGTTCTGTGAAGAACAGCAGGAGCTGGCAGC	120
QY	121	GGCGAAGGAAGCGGCTGAGGCGCTTGGAAACCGAAAGTCTCGGTGCTCCTGGCTACCT	180
DB	121	GGCGAAGGAAGCGGCTGAGGCGCTTGGAAACCGAAAGTCTCGGTGCTCCTGGCTACCT	180
QY	181	CGCACAGCGGTGCCCGCCCGCGCGCTCAGTACCATGGACAGCAGCGTGTCCCCCAAGACG	240
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; CURRENT FILING DATE: 2001-06-18
; PRIOR APPLICATION NUMBER: 60/212,225
; PRIOR FILING DATE: 2000-06-16
; NUMBER OF SEQ ID NOS: 10
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1
; LENGTH: 2162
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
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; OTHER INFORMATION: n = A,T,C or G
US-09-883-839-1

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DB	61	CGCTCTCTCTGTCAGCCAGGACTGGTTTCTGTAAAGAAACAGCAGGAGCTGTGCAGC	120		
QY	121	GGCGAAGGAAGCGGTGAGCGCTTGGAAACCGGAAAGTCTCGGTGCTCTGGTACCT	180		
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DB	241	CCAGCAATTCGATGATGCTTGGCGTACTCAAGTTGCTCCCGCAGCAGCCCGCGGTT	300		
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QY	361	CGAACCTGGCGGAGAGACAGCTGTGCTCCGACCGGCGGCGCTCCCTCCATCATCA	420		
DB	361	CGAACCTGGCGGAGAGACAGCTGTGCTCCGACCGGCGGCGCTCCCTCCATCATCA	420		
QY	421	CGGCCATCAGATCATGGCCCTCTACTCCATCGTGTGCGTGGGGCTCTTCGGAAACT	480		
DB	421	CGGCCATCAGATCATGGCCCTCTACTCCATCGTGTGCGTGGGGCTCTTCGGAAACT	480		
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QY	661	ATTACTATAACATGTTCCACGAGATATTCACCTCTGACCATCAGTGTGATCGATACA	720		
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QY	961	TCATTACCGTGTCTATGGACTGATCTTTGGCGCTCAAGAGTGTCCGATCTCTCTG	1020
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Db	1198	CAACAGCTGCTCAACCCAGTCTTTTATGATTTCTGGATGAAATCTTCAACGATGT	1257
QY	1261	TCAGAGATTTCTGTATCCAACTCTTCCAACTTTGAGCAACAAACTCCACTCGAATTC	1320
Db	1258	TCAGAGATTTCTGTATCCAACTCTTCCAACTTTGAGCAACAAACTCCACTCGAATTC	1317
QY	1321	GTGAGACACTAGAGACCAACCCCTCCAGGCCAATACAGTGTAGTAACTATCATCAGC	1380
Db	1318	GTGAGACACTAGAGACCAACCCCTCCAGGCCAATACAGTGTAGTAACTATCATCAGC	1377
QY	1381	TAGAAAATCTGGAAAGCAGAACTGCTCCGTTGCTCCCTTAACAGGGTCTCATGCCATCCGAC	1440
Db	1378	TAGAAAATCTGGAAAGCAGAACTGCTCCGTTGCTCCCTTAACAGGGTCTCATGCCATCCGAC	1437
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Db	1498	AGGCTCTAATTTCTTAGGAAAGTGTCTCTTCTAGTCAATCAACCTCTTCTCTCTGG	1557
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DB 2098 CTTCCAAAGAGTCATCATGGGGGATTTTTCATTTCTTAGGCTTTCAGTGGTTGTTCCCTGG 2157
QY 2161 AATTC 2165
DB 2158 AATTC 2162
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; Sequence 185, Application US/10225567A
; Publication No. US20030113798A1
; GENERAL INFORMATION:
; APPLICANT: LifeSpan Biosciences
; APPLICANT: Brown, Joseph P.
; APPLICANT: Burmer, Glenna C.
; APPLICANT: Roush, Christine L.
; TITLE OF INVENTION: ANTIGENIC PEPTIDES AND ANTIBODIES FOR G PROTEIN-COUPLED RECEPTORS
; FILE REFERENCE: 1920-4-4
; CURRENT APPLICATION NUMBER: US/10/225,567A
; CURRENT FILING DATE: 2001-12-19
; PRIOR APPLICATION NUMBER: 60/257,144
; PRIOR FILING DATE: 2000-12-19
; NUMBER OF SEQ ID NOS: 2292
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 185
; LENGTH: 2162
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (2063)..(2063)
; OTHER INFORMATION: unknown nucleotide
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (2091)..(2091)
; OTHER INFORMATION: unknown nucleotide
US-10-225-567A-185
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Best Local Similarity 99.9%; Pred. No. 0;
Matches 2162; Conservative 0; Mismatches 0; Indels 3; Gaps 1;
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QY 61 CGCTCTCTGTCTCAGCCAGGACTGTTTCTGTGAAGAAACAGCAGAGAGCTGGGAGC 120
DB 61 CGCTCTCTGTCTCAGCCAGGACTGTTTCTGTGAAGAAACAGCAGAGAGCTGGGAGC 120
QY 121 GGCGAAGGAGCGGCTCAGCGCTTGGAAACCGAAGAGTCTCGGTGCTCCTGCTACCT 180
DB 121 GGCGAAGGAGCGGCTCAGCGCTTGGAAACCGAAGAGTCTCGGTGCTCCTGCTACCT 180
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DB 181 CGCAGCGGTGCCCGCGCGCTCAGTACCATGACAGCAGCGCTGCCCGCCACGAAACG 240

QY 241 CCAGCAATTGCACGTAGTGCCCTTGGCGTACTCAAGTTGCTCCCCAGCAGCCAGCCCGGTT 300
DB 241 CCAGCAATTGCACGTAGTGCCCTTGGCGTACTCAAGTTGCTCCCCAGCAGCCAGCCCGGTT 300
QY 301 CTTGGGTCAACTTGTCTCCCACTTAGATGGCAACCTGTCCGACCCCATGGGTCCGAAACGCA 360
DB 301 CTTGGGTCAACTTGTCTCCCACTTAGATGGCAACCTGTCCGACCCCATGGGTCCGAAACGCA 360
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DB 361 CCAACCTGGGCGGAGAGACAGCCCTGTGCCCTCCGAC---CGGCACTCCCTCCATGATCA 417
QY 421 CGGCAATCAGCATCATGGCCCTTACTCCATCGTGGTGGTGGGGCTCTTCGAAACT 480
DB 418 CGGCAATCAGCATCATGGCCCTTACTCCATCGTGGTGGTGGGGCTCTTCGAAACT 477
QY 481 TCCTGGTCATGTATGTGATGTTCAGATACACCAAGATGAAGACTGCCAACCAATCTACA 540
DB 478 TCCTGGTCATGTATGTGATGTTCAGATACACCAAGATGAAGACTGCCAACCAATCTACA 537
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DB 1018 GCTCCAAAGAAAAGCAGGAAATCTTCGAAAGGATCACAGGATGGTGTGGTGGTGG 1077
QY 1081 CTGTGTTTCATGCTGTGTCATCCCAATTCACATTTACGTCATCAATTAAGCCCTTGTTA 1140
DB 1078 CTGTGTTTCATGCTGTGTCATCCCAATTCACATTTACGTCATCAATTAAGCCCTTGTTA 1137
QY 1141 CAATCCAGAAAATACGTTCCAGACTGTTTCTTGGCACTTCTGCAATGCTTAGGTTACA 1200
DB 1138 CAATCCAGAAAATACGTTCCAGACTGTTTCTTGGCACTTCTGCAATGCTTAGGTTACA 1197
QY 1201 CAAACAGCTGCTCAACCCAGTCCCTTATGCAATTTCTGGATGAAAATCTCAAAAGATGCT 1260
DB 1198 CAAACAGCTGCTCAACCCAGTCCCTTATGCAATTTCTGGATGAAAATCTCAAAAGATGCT 1257
QY 1261 TCAGAGAGTTCGTGATCCCAACCTCTTCCAAATTCATTTAGAGCAACAAAATCTCACTCGAATTC 1320
DB 1258 TCAGAGAGTTCGTGATCCCAACCTCTTCCAAATTCATTTAGAGCAACAAAATCTCACTCGAATTC 1317
QY 1321 GTCAGAACACTAGNAGACCAACCCCTCCAGCGGCAATACAGTGGATAGAACTAATCATCAGC 1380

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Db      1318  GTGAGACACTAGAGACACCCCTCCAGGCCAATACAGTGATAGAACTAATCATCAGC 1377
Qy      1381  TAGAAAACTCGAAGCAGAAAACCTGCTCGCTTCCCTTAACAGAGGTCTCATGCCATCCGAC 1440
Db      1378  TAGAAAACTCGAAGCAGAAAACCTGCTCGCTTCCCTTAACAGAGGTCTCATGCCATCCGAC 1437
Qy      1441  CTTCCAAAGCTTAGAAGCACCACATGATGTGGAAGCAGGTGCTTCAAGAAATGTGTAGG 1500
Db      1438  CTTCCAAAGCTTAGAAGCACCACATGATGTGGAAGCAGGTGCTTCAAGAAATGTGTAGG 1497
Qy      1501  AGGCTCTAATTTCTTAGGAAAGTGCCTACTTTTAGGTCTATCAACCTCTTCTCTCTGG 1560
Db      1498  AGGCTCTAATTTCTTAGGAAAGTGCCTACTTTTAGGTCTATCAACCTCTTCTCTCTGG 1557
Qy      1561  CCACTCTGCTGCACATTTAGAGGGACAGCCAAAAGTAAGTGGAGCATTTGGAAGAAAG 1620
Db      1558  CCACTCTGCTGCACATTTAGAGGGACAGCCAAAAGTAAGTGGAGCATTTGGAAGAAAG 1617
Qy      1621  GAATATACCACCCGAGGAGTCCAGTTTGTGCAAGACACCCAGTGGAAACCAAAACCCATC 1680
Db      1618  GAATATACCACCCGAGGAGTCCAGTTTGTGCAAGACACCCAGTGGAAACCAAAACCCATC 1677
Qy      1681  GTGGTATGTGAATTGAAGTCATCAATAAAGGTGACCCCTTCTGTCTGTGAAGATTTATTTT 1740
Db      1678  GTGGTATGTGAATTGAAGTCATCAATAAAGGTGACCCCTTCTGTCTGTGAAGATTTATTTT 1737
Qy      1741  CAAGCAAAATATTATGACCTCAACAAAGAAACCAATCTTTTGTGTTAAGTTTCAACGTAGTA 1800
Db      1738  CAAGCAAAATATTATGACCTCAACAAAGAAACCAATCTTTTGTGTTAAGTTTCAACGTAGTA 1797
Qy      1801  ACACATAAAGTAAATGCTACCTCTGATCAAGCACCTTGAATGGAAGTCCGAGTCTTTT 1860
Db      1798  ACACATAAAGTAAATGCTACCTCTGATCAAGCACCTTGAATGGAAGTCCGAGTCTTTT 1857
Qy      1861  TAGTGTGTTTTGCAAGGGAATGAATCCATTTATCTATTTTAGACTTTTAACTTCAACTTAA 1920
Db      1858  TAGTGTGTTTTGCAAGGGAATGAATCCATTTATCTATTTTAGACTTTTAACTTCAACTTAA 1917
Qy      1921  AATTAGCATCTGGCTAAGGCATCATTTTCACTCCCATTTCTGTTGTTGTTGTTGTTTAA 1980
Db      1918  AATTAGCATCTGGCTAAGGCATCATTTTCACTCCCATTTCTGTTGTTGTTGTTGTTTAA 1977
Qy      1981  AAAAAATAACATCTTTTATCATCTAGCTCCATTAATTGCAAGGAGAGATTAGCATGAAAG 2040
Db      1978  AAAAAATAACATCTTTTATCATCTAGCTCCATTAATTGCAAGGAGAGATTAGCATGAAAG 2037
Qy      2041  TAATCTGAAACACAGATCATGTGTCACTGTAGAAAGTTGATTTCTCATGCACTNCAATA 2100
Db      2038  TAATCTGAAACACAGATCATGTGTCACTGTAGAAAGTTGATTTCTCATGCACTNCAATA 2097
Qy      2101  CTTCCAAAGAGTCATCATGGGGATTTTTCATTTCTTAGGCTTTTCAAGTTTCTCTGG 2160
Db      2098  CTTCCAAAGAGTCATCATGGGGATTTTTCATTTCTTAGGCTTTTCAAGTTTCTCTCTGG 2157
Qy      2161  AATTC 2165
Db      2158  AATTC 2162
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RESULT 4
US-10-305-720-1379
; Sequence 1379, Application US/10305720
; Publication No. US20040010136A1
; GENERAL INFORMATION:
; APPLICANT: Au-Young, Janice K.; Seilhamer, Jeffrey J.
; TITLE OF INVENTION: Composition for the Detection of Signaling Pathway Gene Expression
; FILE REFERENCE: PA-0002-1 CON
; CURRENT APPLICATION NUMBER: US/10/305,720
; PRIOR FILING DATE: 2002-11-26
; PRIOR APPLICATION NUMBER: 09/016,434
; PRIOR FILING DATE: 1998-01-30
; NUMBER OF SEQ ID NOS: 1490
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; SOFTWARE: PERL Program
; SEQ ID NO 1379
; LENGTH: 2162
; TYPE: DNA
; ORGANISM: Homo sapiens
; NAME/KEY: misc feature
; OTHER INFORMATION: GenBank ID No. US20040010136A1 9452072
; NAME/KEY: unsure
; LOCATION: (1) ... (2162)
; OTHER INFORMATION: a, t, c, g, or other
US-10-305-720-1379

Query Match      99.2%; Score 2147; DB 6; Length 2162;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 2162; Conservative 0; Mismatches 0; Indels 3; Gaps 1;

Qy      1  GGAATTCGGGCTATAGGCAGAGGAATGTTCAGATGCTCAGCTCGGTCCCTCCGCTCA 60
Db      1  GGAATTCGGGCTATAGGCAGAGGAATGTTCAGATGCTCAGCTCGGTCCCTCCGCTCA 60
Qy      61  CGCTCTCTCTGTCTCAGCCAGGACTGCTTCTGTAAAGAAACAGCAGAGAGCTGTGCAGC 120
Db      61  CGCTCTCTCTGTCTCAGCCAGGACTGCTTCTGTAAAGAAACAGCAGAGAGCTGTGCAGC 120
Qy      121  GCGCAAAAGGAGCGGCTGAGCGCTTGAAACCCGAAAGTCTTCGGTGTCTTCGGCTACCT 180
Db      121  GCGCAAAAGGAGCGGCTGAGCGCTTGAAACCCGAAAGTCTTCGGTGTCTTCGGCTACCT 180
Qy      181  CGCAGACGGGTGCCCCCGCGCGTCACTGATGCAAGTGTCTCCAGCAGCAGCGTGCACG 240
Db      181  CGCAGACGGGTGCCCCCGCGCGTCACTGATGCAAGTGTCTCCAGCAGCAGCGTGCACG 240
Qy      241  CCAGCAATTGCACTGATGCTTGGCGTACTCAAGTGTCTCCAGCAGCAGCGTGCACG 300
Db      241  CCAGCAATTGCACTGATGCTTGGCGTACTCAAGTGTCTCCAGCAGCAGCGTGCACG 300
Qy      301  CCGTGGTCAACTTGTCCCACTTAGATGCAACCTGTCGACCCATCGCGTCCGAAACGCA 360
Db      301  CCGTGGTCAACTTGTCCCACTTAGATGCAACCTGTCGACCCATCGCGTCCGAAACGCA 360
Qy      361  CCAACTCGGGGGGAGAGACAGCTGTGCTCCGACCGCGGAGTCTCCTCATGATCA 420
Db      361  CCAACTCGGGGGGAGAGACAGCTGTGCTCCGACCGCGGAGTCTCCTCATGATCA 417
Qy      421  CGGCCATCAAGATCATGGCCCTCTACTCCATCGTGTGCGTGTGGGCTCTTCGGAACCT 480
Db      418  CGGCCATCAAGATCATGGCCCTCTACTCCATCGTGTGCGTGTGGGCTCTTCGGAACCT 477
Qy      481  TCCTGTCATGATGTGATTGTGATACACCAAGATGAAGACTGCGCACCAACATCTACA 540
Db      478  TCCTGTCATGATGTGATTGTGATACACCAAGATGAAGACTGCGCACCAACATCTACA 537
Qy      541  TTTTCAACCTCTCTCGGAGATGCTTAGCCACCAAGTACCTGCGCTTCAGAGTGTGA 600
Db      538  TTTTCAACCTCTCTCGGAGATGCTTAGCCACCAAGTACCTGCGCTTCAGAGTGTGA 597
Qy      601  ATTACCTAATGGGAACATGGCCATTTGGAACCATCTTTTGAAGATAGTGTCTCCATAG 660
Db      598  ATTACCTAATGGGAACATGGCCATTTGGAACCATCTTTTGAAGATAGTGTCTCCATAG 657
Qy      661  ATTACCTAATGGGAACATGGCCATTTGGAACCATCTTTTGAAGATAGTGTCTCCATAG 720
Db      658  ATTACCTAATGGGAACATGGCCATTTGGAACCATCTTTTGAAGATAGTGTCTCCATAG 717
Qy      721  TTGCGAGTCTGCCACCTGTCAGAGGCTTAGATTTCCGTAATCCCGAAATGCCAAATTA 780
Db      718  TTGCGAGTCTGCCACCTGTCAGAGGCTTAGATTTCCGTAATCCCGAAATGCCAAATTA 777
Qy      781  TCAATGCTGCAACTGGATCTCTCTTCAAGCAATTTGGTCTTCTGTAATGTTTCATGGCTA 840
Db      778  TCAATGCTGCAACTGGATCTCTCTTCAAGCAATTTGGTCTTCTGTAATGTTTCATGGCTA 837
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QY 841 CAACAAATACAGGCAAGGTTCCATAGATTGTACACTAACATTTCTCTCATCCAACTGGT 900
Db 838 CAACAAATACAGGCAAGGTTCCATAGATTGTACACTAACATTTCTCTCATCCAACTGGT 897
QY 901 ACTGGGAAACCTCGTGAAGATCTGTGTTTTCATCTTGGCCCTCATTAATGCCAGTGCTCA 960
Db 898 ACTGGGAAACCTCGTGAAGATCTGTGTTTTCATCTTGGCCCTCATTAATGCCAGTGCTCA 957
QY 961 TCATTACCGTGTGCTATGACTGATGATCTTGGGCTCAAGAGTGTCCGATGCTCTCTG 1020
Db 958 TCATTACCGTGTGCTATGACTGATGATCTTGGGCTCAAGAGTGTCCGATGCTCTCTG 1017
QY 1021 GCTCCAAAGAAAGACAGGATCTTCGAAGATCACCAGATGCTGTGGTGGTGG 1080
Db 1018 GCTCCAAAGAAAGACAGGATCTTCGAAGATCACCAGATGCTGTGGTGGTGG 1077
QY 1081 CTGTGTTTCATCTGTGCTGGACTCCCATTTACATTTAGCTCATTAAGGCTTGGTTA 1140
Db 1078 CTGTGTTTCATCTGTGCTGGACTCCCATTTACATTTAGCTCATTAAGGCTTGGTTA 1137
QY 1141 CAATCCCAGAAACTAGTTCAGACTGTTTCTTGGCACTTCTGCAATGCTCTAGGTTACA 1200
Db 1138 CAATCCCAGAAACTAGTTCAGACTGTTTCTTGGCACTTCTGCAATGCTCTAGGTTACA 1197
QY 1201 CAACAGCTGCTCAACCCAGTCTTTATGCAATTTCTGGATGAATAACTTCAACGATGCT 1260
Db 1198 CAACAGCTGCTCAACCCAGTCTTTATGCAATTTCTGGATGAATAACTTCAACGATGCT 1257
QY 1261 TCAGAGAGTTCGTATCCCAACTCTTCCAACTTGGAGCAACAAACTCCACTCGAATTC 1320
Db 1258 TCAGAGAGTTCGTATCCCAACTCTTCCAACTTGGAGCAACAAACTCCACTCGAATTC 1317
QY 1321 GTFAGAACA CTAGAGACCAACCCCTCCACGGCCAATACAGTGGATAGAACTAATCATCAGC 1380
Db 1318 GTFAGAACA CTAGAGACCAACCCCTCCACGGCCAATACAGTGGATAGAACTAATCATCAGC 1377
QY 1381 TAGAAAACTGGAAGCAGAAACTGCTCGTGGCCCTTAACAGGCTCTCATGCCATCCGAC 1440
Db 1378 TAGAAAACTGGAAGCAGAAACTGCTCGTGGCCCTTAACAGGCTCTCATGCCATCCGAC 1437
QY 1441 CTTCCACCAAGCTTTAGAAGCCACCATGTATGTGGAAGCAGGTTGCTTCAAGAAATGTAGG 1500
Db 1438 CTTCCACCAAGCTTTAGAAGCCACCATGTATGTGGAAGCAGGTTGCTTCAAGAAATGTAGG 1497
QY 1501 AGGCTCTAATTTCTTAGGAAAGTGCTACTTTTAGGTGCATCCAACTCTTTCTCTCTGG 1560
Db 1498 AGGCTCTAATTTCTTAGGAAAGTGCTACTTTTAGGTGCATCCAACTCTTTCTCTCTGG 1557
QY 1561 CCACCTGCTGTGACATTTAGGGGACAGCCAAAGTAAGTGGAGCATTTGGAAGGAAAG 1620
Db 1558 CCACCTGCTGTGACATTTAGGGGACAGCCAAAGTAAGTGGAGCATTTGGAAGGAAAG 1617
QY 1621 GAATATACCAACCCAGAGGTCAGTGTGTGCAACACCCAGTGGAAACCAAAACCCATC 1680
Db 1618 GAATATACCAACCCAGAGGTCAGTGTGTGCAACACCCAGTGGAAACCAAAACCCATC 1677
QY 1681 GTGTGATGTGAATGAAGTCATATAAAGGTGACCCCTCTGCTGTGAAGATTTTATTTT 1740
Db 1678 GTGTGATGTGAATGAAGTCATATAAAGGTGACCCCTCTGCTGTGAAGATTTTATTTT 1737
QY 1741 CAAGCAATATTTATGACTCAACAAAGAGAACCATCTTTTGTAAAGTTCAACGTTAGTA 1800
Db 1738 CAAGCAATATTTATGACTCAACAAAGAGAACCATCTTTTGTAAAGTTCAACGTTAGTA 1797
QY 1801 ACACATAAGTAAATGCTTACCTCTGATCAAGACCTTTGAATGGAAGTCCGAGTCTTTT 1860
Db 1798 ACACATAAGTAAATGCTTACCTCTGATCAAGACCTTTGAATGGAAGTCCGAGTCTTTT 1857
QY 1861 TAGTGTTTTTGCAAGGGAATGAATCCATTTATTTTAGACTTTTAACTTCAACTTAA 1920
Db 1858 TAGTGTTTTTGCAAGGGAATGAATCCATTTATTTTAGACTTTTAACTTCAACTTAA 1917

QY 1921 AATTAGCATCTGGCTTAAGGCATCAATTTTCACTCCATTTCTGTTTGTATTGTTTAAA 1980
Db 1918 AATTAGCATCTGGCTTAAGGCATCAATTTTCACTCCATTTCTGTTTGTATTGTTTAAA 1977
QY 1981 AAAAAATAACATCTCTTTTCATCTAGCTCATAAATTCGAAGGGAAGAGATTAGCATGAAAG 2040
Db 1978 AAAAAATAACATCTCTTTTCATCTAGCTCATAAATTCGAAGGGAAGAGATTAGCATGAAAG 2037
QY 2041 TAATCTGAACACACAGTCAATGTGTCACTGTAGAAAGGTTGATTTCTCATGCACTNCAATA 2100
Db 2038 TAATCTGAACACACAGTCAATGTGTCACTGTAGAAAGGTTGATTTCTCATGCACTNCAATA 2097
QY 2101 CTTCCAAAGAGTCAATCATGGGGATTTTTCATTTCTTAGGCTTTTCAAGTGGTTTGTCTCTGG 2160
Db 2098 CTTCCAAAGAGTCAATCATGGGGATTTTTCATTTCTTAGGCTTTTCAAGTGGTTTGTCTCTGG 2157
QY 2161 AATTCT 2165
Db 2158 AATTCT 2162

RESULT 5
US-10-500-050-1
; Sequence 1, Application US/10500050
; Publication No. US20050106568A1
; GENERAL INFORMATION:
; APPLICANT: Takeda Chemical Industries, Ltd.
; TITLE OF INVENTION: Method of Quantifying Nucleic Acid And Kit for Quantifying Nuclei
; FILE REFERENCE: P02-0156
; CURRENT APPLICATION NUMBER: US/10/500,050
; CURRENT FILING DATE: 2004-06-25
; PRIOR APPLICATION NUMBER: JP 2001-400280
; PRIOR FILING DATE: 2001-12-28
; NUMBER OF SEQ ID NOS: 10
; SEQ ID NO 1
; LENGTH: 2162
; TYPE: DNA
; ORGANISM: Human
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: 2063.. 2091
; OTHER INFORMATION: n stands for any base
US-10-500-050-1

Query Match 99.2%; Score 2147; DB 9; Length 2162;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 2162; Conservative 0; Mismatches 0; Indels 3; Gaps 1;

QY 1 GGAATTCGGCTATAGCAGAGGAGAAATGTCTGTAAGAAACACAGCAGAGCTGTGGCAGC 60
Db 1 GGAATTCGGCTATAGCAGAGGAGAAATGTCTGTAAGAAACACAGCAGAGCTGTGGCAGC 60
QY 61 CGCTCTCTCTGCTCCTCAGCAGAGAGCTGTTTCTGTAAGAAACACAGCAGAGCTGTGGCAGC 120
Db 61 CGCTCTCTCTGCTCCTCAGCAGAGAGCTGTTTCTGTAAGAAACACAGCAGAGCTGTGGCAGC 120
QY 121 GGCAGAAAGAGAGCGGCTGAGCGCTTGGAAACCCGAAAGTCTCGGTGCTCTCGGTACCT 180
Db 121 GGCAGAAAGAGAGCGGCTGAGCGCTTGGAAACCCGAAAGTCTCGGTGCTCTCGGTACCT 180
QY 181 CGCAGAGCGGTGCCCGCCCGGCTCAGTACCATGGAACAGCAGCGCTGCCCCACGAAACG 240
Db 181 CGCAGAGCGGTGCCCGCCCGGCTCAGTACCATGGAACAGCAGCGCTGCCCCACGAAACG 240
QY 241 CCAGCAATTGCACTGATGCTTGGCGTACTCAAGTGTCTCCCAAGCAGCCAGCCCGGTT 300
Db 241 CCAGCAATTGCACTGATGCTTGGCGTACTCAAGTGTCTCCCAAGCAGCCAGCCCGGTT 300
QY 301 CTTGGGTCAAATTGCTCCCATTTAGATGGCAACCTGTCCGACCCCATGCGGTCCGAAACGCA 360
Db 301 CTTGGGTCAAATTGCTCCCATTTAGATGGCAACCTGTCCGACCCCATGCGGTCCGAAACGCA 360
QY 361 CCAACCTGGGCGGAGAGACAGCTGTGTCCTCCGACCGGGCGGAGTCCCTCCCATGATCA 420

Db 361 CCAACCTGGGCGGAGAGACAGCTGTGCCTCCGAC---CGGACGTCCCTCCATGATCA 417
Qy 421 CGGCCATCAGCATATGCGCCCTTACTCCATCGTGTGCGTGGGGCTCTTCGGAACCT 480
Db 418 CGGCCATCAGCATATGCGCCCTTACTCCATCGTGTGCGTGGGGCTCTTCGGAACCT 477
Qy 481 TCCGTGTCATGTATGTGATTGTGCAGATACACCAAGATGAAGACTGCGCACCAACATCTACA 540
Db 478 TCCGTGTCATGTATGTGATTGTGCAGATACACCAAGATGAAGACTGCGCACCAACATCTACA 537
Qy 541 TTTTCAACCTTGCTCTGGCAGATGSCCTTAGCCACCAAGTACCCCTGCGCCCTTCAGAGGTGA 600
Db 538 TTTTCAACCTTGCTCTGGCAGATGSCCTTAGCCACCAAGTACCCCTGCGCCCTTCAGAGGTGA 597
Qy 601 ATTACCTAATGGGAACATGGCCATTTGGAAACCAATCTTTGCAAGATAGTGAATCTCATAG 660
Db 598 ATTACCTAATGGGAACATGGCCATTTGGAAACCAATCTTTGCAAGATAGTGAATCTCATAG 657
Qy 661 ATTACTATAACATGTTTCAACAGCATATTCACCCCTCTGCACCATGAGTGTGATCGATACA 720
Db 658 ATTACTATAACATGTTTCAACAGCATATTCACCCCTCTGCACCATGAGTGTGATCGATACA 717
Qy 721 TTGCAGTCTGCCACCTGTCAAGGCCCTTAGATTTCCGTACTTCCCGGAAATGCCAAATTA 780
Db 718 TTGCAGTCTGCCACCTGTCAAGGCCCTTAGATTTCCGTACTTCCCGGAAATGCCAAATTA 777
Qy 781 TCAATGTCTGCAATCGATCCTCTCTTCAGCCATTTGGTCTTCTGTAATGTTTCATGGCTA 840
Db 778 TCAATGTCTGCAATCGATCCTCTCTTCAGCCATTTGGTCTTCTGTAATGTTTCATGGCTA 837
Qy 841 CAACAAATACAGGCAAGGTTCCATAGATTGTACACTTAACATTTCTCATCCAACTGGT 900
Db 838 CAACAAATACAGGCAAGGTTCCATAGATTGTACACTTAACATTTCTCATCCAACTGGT 897
Qy 901 ACTGGGAAACCTCGTGAAGATCTGTGTTTTCATCTTCGCTTCATTATGCGCAGTCTCA 960
Db 898 ACTGGGAAACCTCGTGAAGATCTGTGTTTTCATCTTCGCTTCATTATGCGCAGTCTCA 957
Qy 961 TCATTAACGCTGCTATGGAATGATGATCTTCGCGCTCAAGAGTGTCCGATGCTCTCTG 1020
Db 958 TCATTAACGCTGCTATGGAATGATGATCTTCGCGCTCAAGAGTGTCCGATGCTCTCTG 1017
Qy 1021 GCTCCAAAGAAAGGACAGAACTTCGAAGGATCACCAGGATGCTGCTGGTGGTGG 1080
Db 1018 GCTCCAAAGAAAGGACAGAACTTCGAAGGATCACCAGGATGCTGCTGGTGGTGG 1077
Qy 1081 CTGTGTTTCATGCTGCTGACTCCCATTCACATTTACGTCATCAATAAGCCCTTGTTA 1140
Db 1078 CTGTGTTTCATGCTGCTGACTCCCATTCACATTTACGTCATCAATAAGCCCTTGTTA 1137
Qy 1141 CAATCCAGAACTACGTTCCAGACTGTTTCTTGGCACTTCTGCATGCTCTAGGTTACA 1200
Db 1138 CAATCCAGAACTACGTTCCAGACTGTTTCTTGGCACTTCTGCATGCTCTAGGTTACA 1197
Qy 1201 CAACAGCTGCTCAACCCAGTCTTTATGCAATTTCTGGATGAATAACTTCAACAGTCT 1260
Db 1198 CAACAGCTGCTCAACCCAGTCTTTATGCAATTTCTGGATGAATAACTTCAACAGTCT 1257
Qy 1261 TCAGAGGTTCTGTATCCCAACTCTTCCAACTTTAGCAACAAATACTCCACTCGAATTC 1320
Db 1258 TCAGAGGTTCTGTATCCCAACTCTTCCAACTTTAGCAACAAATACTCCACTCGAATTC 1317
Qy 1321 GTCAGAACTAGAGACACCCCTTCCACGCCCAATACAGTGGATAGAACTTAATCATCAGC 1380
Db 1318 GTCAGAACTAGAGACACCCCTTCCACGCCCAATACAGTGGATAGAACTTAATCATCAGC 1377
Qy 1381 TAGAAATCTGGAAGCAAGAACTGCTCCGTTGCCCTTAACAGGTTCTCATGCCATTCGAC 1440
Db 1378 TAGAAATCTGGAAGCAAGAACTGCTCCGTTGCCCTTAACAGGTTCTCATGCCATTCGAC 1437
Qy 1441 CTTTCACCAAGCTTAGAAGCCACCATGATGTGTGGAAGCAGGTTCTTCAAGAAATGTGTAGG 1500

Db 1438 CTTCCACCAAGCTTAGAAGCCACCATGTATGTGGAAGAGGTTGCTTCAAGAAATGTGTAGG 1497
Qy 1501 AGGCTCTAATCTCTTAGGAAAGTGCTACTTTTAGTTCATCAACCTCTTCTCTCTCTG 1560
Db 1498 AGGCTCTAATCTCTTAGGAAAGTGCTACTTTTAGTTCATCAACCTCTTCTCTCTG 1557
Qy 1561 CCACCTCTGCTCTGCACATTTAGAGGACAGCCAAAGTAAGTGAAGCAATTTGGAAGAAAG 1620
Db 1558 CCACCTCTGCTCTGCACATTTAGAGGACAGCCAAAGTAAGTGAAGCAATTTGGAAGAAAG 1617
Qy 1621 GAATATACACACCCAGGAGTCCAGTTTGTGCAAGACCCAGTGGAAACCAACCCATC 1680
Db 1618 GAATATACACACCCAGGAGTCCAGTTTGTGCAAGACCCAGTGGAAACCAACCCATC 1677
Qy 1681 GTGGTATGTGAATTCGAAGTCATATAAAGGTGACCCCTCTCTCTGCTAAGATTTTATTTT 1740
Db 1678 GTGGTATGTGAATTCGAAGTCATATAAAGGTGACCCCTCTCTCTGCTAAGATTTTATTTT 1737
Qy 1741 CAAGCAAAATATTATGA CTTCAACAAAGAAAGCAATCTTTTGTAAAGTTCACCGTAGTA 1800
Db 1738 CAAGCAAAATATTATGA CTTCAACAAAGAAAGCAATCTTTTGTAAAGTTCACCGTAGTA 1797
Qy 1801 ACACATAAAGTAAATGCTACCTCTGATCAAGCACCTTGAATGGAGGTCCGAGTCTTTT 1860
Db 1798 ACACATAAAGTAAATGCTACCTCTGATCAAGCACCTTGAATGGAGGTCCGAGTCTTTT 1857
Qy 1861 TAGTGTGTTTTGCAAGGAATGAATCCATTATTCTATTTTAGACTTTTAACTTCAACTTAA 1920
Db 1858 TAGTGTGTTTTGCAAGGAATGAATCCATTATTCTATTTTAGACTTTTAACTTCAACTTAA 1917
Qy 1921 AATTAGCATCTGGCTAAGGCATCATTTTCACTCCCATTTCTTGGTTTTGTATGTTTTAAA 1980
Db 1918 AATTAGCATCTGGCTAAGGCATCATTTTCACTCCCATTTCTTGGTTTTGTATGTTTTAAA 1977
Qy 1981 AAAAATAACATCTCTTTTCACTAGCTCCTCAATTTGCAAGGAAGAGATAGCATGAAGG 2040
Db 1978 AAAAATAACATCTCTTTTCACTAGCTCCTCAATTTGCAAGGAAGAGATAGCATGAAGG 2037
Qy 2041 TAATCTGAAACACAGTCATGTCTGCTAGAAAGTTGATTCTCATGCACCTNCAATA 2100
Db 2038 TAATCTGAAACACAGTCATGTCTGCTAGAAAGTTGATTCTCATGCACCTNCAATA 2097
Qy 2101 CTTCCAAAGAGTCATCATGGGGATTTTTTCATTCTTAGGCTTTTCACTGGTTTCTCTGG 2160
Db 2098 CTTCCAAAGAGTCATCATGGGGATTTTTTCATTCTTAGGCTTTTCACTGGTTTCTCTGG 2157
Qy 2161 AATTC 2165
Db 2158 AATTC 2162

RESULT 6

US-09-883-839-3
; Sequence 3, Application US/09883839
; Publication No. US20040209250A1
; GENERAL INFORMATION:
; APPLICANT: Kreek, Mary Jeanne
; APPLICANT: Laforge, Karl Steven
; TITLE OF INVENTION: Alleles of the Human Mu Opioid Receptor,
; TITLE OF INVENTION: Diagnostic Methods Using Said Alleles, and Methods of
; TITLE OF INVENTION: Treatment Based Thereon
; FILE REFERENCE: 600-1-266N
; CURRENT APPLICATION NUMBER: US/09/883,839
; CURRENT FILING DATE: 2001-06-18
; PRIOR APPLICATION NUMBER: 60/212,225
; PRIOR FILING DATE: 2000-06-16
; NUMBER OF SEQ ID NOS: 10
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 3
; LENGTH: 2162
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:

; NAME/KEY: misc feature									
; LOCATION: 2063_2091									
; OTHER INFORMATION: n = A,T,C or G									
US-09-883-839-3									
Query Match									
Best Local Similarity 99.1%; Score 2145.4; DB 3; Length 2162;									
Matches 2161; Conservative 0; Mismatches 1; Indels 3; Gaps 1;									
Qy	1	GAATTCGGCTATAGGCAGAGAGAAATGTGAGATGCTCAGTCTGGTCCCTCCGCTGA	60						
Db	1	GAATTCGGCTATAGGCAGAGAGAAATGTGAGATGCTCAGTCTGGTCCCTCCGCTGA	60						
Qy	61	CGCTCCTCTCTCTCAGCCAGGACTGTTCTGTAAAGAAACAGCAGAGCTGTGGCAGC	120						
Db	61	CGCTCCTCTCTCTCAGCCAGGACTGTTCTGTAAAGAAACAGCAGAGCTGTGGCAGC	120						
Qy	121	GGCGAAAGGAGCGGCTGAGGCGCTTTGGAACCCGAAAGTCTCGGTGCTCCTGGCTACCT	180						
Db	121	GGCGAAAGGAGCGGCTGAGGCGCTTTGGAACCCGAAAGTCTCGGTGCTCCTGGCTACCT	180						
Qy	181	CGCAGCGGTGCCCGCGCGCTCAGTACATGGAACAGCAGCGCTGCCCGCAGAACG	240						
Db	181	CGCAGCGGTGCCCGCGCGCTCAGTACATGGAACAGCAGCGCTGCCCGCAGAACG	240						
Qy	241	CCAGCAATTGCACTGATGCTTGGCGTACTCAAGTTGCTCCCGACCCAGCCCGCGTT	300						
Db	241	CCAGCAATTGCACTGATGCTTGGCGTACTCAAGTTGCTCCCGACCCAGCCCGCGTT	300						
Qy	301	CCTGGGTCAACTTGTCCCACTTAGATGGCAACTGTGCCGACCCATGCGGTCCGAACCGCA	360						
Db	301	CCTGGGTCAACTTGTCCCACTTAGATGGCAACTGTGCCGACCCATGCGGTCCGAACCGCA	360						
Qy	361	CCAACTGGGGGAGAGACGCTGTGCCCTCCGAC---	420						
Db	361	CCAACTGGGGGAGAGACGCTGTGCCCTCCGAC---	420						
Qy	421	CGGCCATCAGCATGATGCTTCTACTCCATGCTGCTGGTGGGCTCTTCGGAACT	480						
Db	421	CGGCCATCAGCATGATGCTTCTACTCCATGCTGCTGGTGGGCTCTTCGGAACT	480						
Qy	481	TCCTGGTCAATGTATGTGATTTGTAGATACCAAGATGAAGACTGCCACCAACATCTACA	540						
Db	481	TCCTGGTCAATGTATGTGATTTGTAGATACCAAGATGAAGACTGCCACCAACATCTACA	540						
Qy	541	TTTTCAACCTTGCTCTGGGAGATGCTTAGCCACAGTACCTGCGCTTCAGAGTGTGA	600						
Db	541	TTTTCAACCTTGCTCTGGGAGATGCTTAGCCACAGTACCTGCGCTTCAGAGTGTGA	600						
Qy	601	ATTACCTAATGGGACATGGCCATTTGGAAACCATCTTTGCAAGATAGTGATCTCCATAG	660						
Db	601	ATTACCTAATGGGACATGGCCATTTGGAAACCATCTTTGCAAGATAGTGATCTCCATAG	660						
Qy	661	ATTACTAATAACATGTTTACCAGCATATTTCAACCTCTGCACCATGAGTGTGATCGATACA	720						
Db	661	ATTACTAATAACATGTTTACCAGCATATTTCAACCTCTGCACCATGAGTGTGATCGATACA	720						
Qy	721	TTGCAGTCTGCCACCTGTCAAGGCTTAGATTTCCGTAATTTCCGTAATTTCCGTAATTTA	780						
Db	721	TTGCAGTCTGCCACCTGTCAAGGCTTAGATTTCCGTAATTTCCGTAATTTCCGTAATTTA	780						
Qy	781	TCAATGTCTGCAACTGGATCTCTCTCTCAGCCATGCTTCTCTGTAATTTTATGGCTA	840						
Db	781	TCAATGTCTGCAACTGGATCTCTCTCTCAGCCATGCTTCTCTGTAATTTTATGGCTA	840						
Qy	841	CAACAAAATACAGGCAAGGTTCCATAGATTTGTATACATAACATTTCTCATCCAACTGGT	900						
Db	841	CAACAAAATACAGGCAAGGTTCCATAGATTTGTATACATAACATTTCTCATCCAACTGGT	900						
Qy	901	ACTGGGAAAACCTCTGTGAAGATCTGTGTTTTCATCTTCCGCTTCAATATGCGAGTGTCA	960						
Db	901	ACTGGGAAAACCTCTGTGAAGATCTGTGTTTTCATCTTCCGCTTCAATATGCGAGTGTCA	960						
Qy	961	TCATTACCGTGTCTATGGACTGATGATCTTGGCCTCAAGAGTGTCCGATGCTCTCTG	1020						
Db	961	TCATTACCGTGTCTATGGACTGATGATCTTGGCCTCAAGAGTGTCCGATGCTCTCTG	1020						
Qy	1021	GCTCCAAAGAAAAGGACAGGAATCTTCAAGAGTACACAGGATGCTGTGTGTGTGGTGG	1080						
Db	1021	GCTCCAAAGAAAAGGACAGGAATCTTCAAGAGTACACAGGATGCTGTGTGTGTGGTGG	1080						
Qy	1081	CTGTGTTTCATGCTGTGGACTCCCATTTACATTTACGTCATCATTTAAAGCCTTGGTTA	1140						
Db	1081	CTGTGTTTCATGCTGTGGACTCCCATTTACATTTACGTCATCATTTAAAGCCTTGGTTA	1140						
Qy	1141	CAATCCCAGAAAACCTACGTTCCAGACTGTTCTTGGCCTCTTCTGCAATGCTCTAGTTACA	1200						
Db	1141	CAATCCCAGAAAACCTACGTTCCAGACTGTTCTTGGCCTCTTCTGCAATGCTCTAGTTACA	1200						
Qy	1201	AAAAACAGCTGCTCAACCCAGTCTCTTATGATTTCTGGATGAAACCTTCAACAGATGCT	1260						
Db	1201	AAAAACAGCTGCTCAACCCAGTCTCTTATGATTTCTGGATGAAACCTTCAACAGATGCT	1260						
Qy	1261	TCAGAGATTTCTGATCCCAACCTCTTCCAACTTGGAGCAACAACTCCCACTCGAATTC	1320						
Db	1261	TCAGAGATTTCTGATCCCAACCTCTTCCAACTTGGAGCAACAACTCCCACTCGAATTC	1320						
Qy	1321	GTCAAGAACACTAGAGACACCCCTCCACGCGCAATACAGTGGATAGAACTAATCATCAGC	1380						
Db	1321	GTCAAGAACACTAGAGACACCCCTCCACGCGCAATACAGTGGATAGAACTAATCATCAGC	1380						
Qy	1381	TAGAAAATCTGGAAAGCAGAAACCTGCTCGTTGCCCTTAACAGGGTCTCATGCCATTCGAC	1440						
Db	1381	TAGAAAATCTGGAAAGCAGAAACCTGCTCGTTGCCCTTAACAGGGTCTCATGCCATTCGAC	1440						
Qy	1441	CTTCAACCAAGCTTAGAGCCACCATGATGTGGAGCAGGTTGCTTCAAGAAATGTGTAGG	1500						
Db	1441	CTTCAACCAAGCTTAGAGCCACCATGATGTGGAGCAGGTTGCTTCAAGAAATGTGTAGG	1500						
Qy	1501	AGGCTCTAAATCTCTAGGAAAGTCCCTACTTTTAGGTCAATCCAACTCTTCTCTCTGG	1560						
Db	1501	AGGCTCTAAATCTCTAGGAAAGTCCCTACTTTTAGGTCAATCCAACTCTTCTCTCTGG	1560						
Qy	1561	CCACTCTGCTCTGCACATTTAGAGGGAACAGCCAAAGTAAAGTGGAGCATTTGGAGGAAAG	1620						
Db	1561	CCACTCTGCTCTGCACATTTAGAGGGAACAGCCAAAGTAAAGTGGAGCATTTGGAGGAAAG	1620						
Qy	1621	GAATATACCAACACCGAGGAGTCCAGTTTGTGCAAGACACCCAGTGGAAACCAACCCATC	1680						
Db	1621	GAATATACCAACACCGAGGAGTCCAGTTTGTGCAAGACACCCAGTGGAAACCAACCCATC	1680						
Qy	1681	GTGATGTGAATTTGAAGTCAATATAAAGGTGACCCCTTCTGCTGTAAAGATTTTATTTT	1740						
Db	1681	GTGATGTGAATTTGAAGTCAATATAAAGGTGACCCCTTCTGCTGTAAAGATTTTATTTT	1740						
Qy	1741	CAAGCAAAATTTATGACCTCAACAAAGAGAACATCTTTTGTAAAGTTCACCGTAGTA	1800						
Db	1741	CAAGCAAAATTTATGACCTCAACAAAGAGAACATCTTTTGTAAAGTTCACCGTAGTA	1800						
Qy	1801	ACATATTAAGTAAATGCTTACCTCTGATCAAGACACCTTTGAATGGAAGTCCGAGTCTTTT	1860						
Db	1801	ACATATTAAGTAAATGCTTACCTCTGATCAAGACACCTTTGAATGGAAGTCCGAGTCTTTT	1860						
Qy	1861	TAGTGTGTTTTCAGAGGGAATGAATCCATTTATTTTAGACTTTTAACTTCAACTTAA	1920						
Db	1861	TAGTGTGTTTTCAGAGGGAATGAATCCATTTATTTTAGACTTTTAACTTCAACTTAA	1920						
Qy	1921	AATTAGCATCTGGCTAAGGCAATCAATTTTCACTCCATTTCTTGGTTTGTATTGTTTAAA	1980						
Db	1921	AATTAGCATCTGGCTAAGGCAATCAATTTTCACTCCATTTCTTGGTTTGTATTGTTTAAA	1980						
Qy	1981	AAAAATTAACATCTCTTTTCATCTAGCTCCATTAATTTGCAAGGAGAGATTAGCATGAAGG	2040						
Db	1981	AAAAATTAACATCTCTTTTCATCTAGCTCCATTAATTTGCAAGGAGAGATTAGCATGAAGG	2040						
Qy	2041	TAATCTGAAACACAGTCAATGTGTGCANCTGTAGAAAAGGTTGATTTCTCATGCACTNCAATA	2100						
Db	2041	TAATCTGAAACACAGTCAATGTGTGCANCTGTAGAAAAGGTTGATTTCTCATGCACTNCAATA	2100						

Db	2038	TAATCTGAAACACAGTCATGTGTGCANCTGTAGAAAGGTTGATTCTCATGCACTCNCAATA	2097
Qy	2101	CTTCCAAAGAGTCATCATGSGGGGATTTTTTCATCTTTAGGCTTTTCAGTGGTTTCTCTGG	2160
Db	2098	CTTCCAAAGAGTCATCATGSGGGGATTTTTTCATCTTTAGGCTTTTCAGTGGTTTCTCTGG	2157
Qy	2161	AATTTC	2165
Db	2158	AATTTC	2162

```

RESULT 7
US-09-883-839-5
; Sequence 5, Application US/09883839
; Publication No. US20040209250A1
; GENERAL INFORMATION:
; APPLICANT: Kriek, Mary Jeanne
; APPLICANT: LaForge, Karl Steven
; TITLE OF INVENTION: Alleles of the Human Mu Opioid Receptor,
; TITLE OF INVENTION: Diagnostic Methods Using Said Alleles, and Methods of
; TITLE OF INVENTION: Treatment Based Thereon
; FILE REFERENCE: 600-1-266N
; CURRENT APPLICATION NUMBER: US/09/883,839
; CURRENT FILING DATE: 2001-06-18
; PRIOR APPLICATION NUMBER: 60/212,225
; PRIOR FILING DATE: 2000-06-16
; NUMBER OF SEQ ID NOS: 10
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 5
; LENGTH: 2162
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: 2063, 2091
; OTHER INFORMATION: n = A,T,C or G
US-09-883-839-5

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Db	418	CGGCGATCA	CGATCATG	CGCCCTCTACTCCATCGTGTGCGTGGGGGCTCTTCGGAACACT	477
Qy	481	TCCTGGTCAT	GTATGTATGTGCAGATAC	CCAAGATGAAGACTGCGCAACAACATCTACA	540
Db	478	TCCTGGTTCAT	GTATGTATGTGCAGATAC	CAACAAGATGAAGACTGCGCACCAACATCTACA	537
Qy	541	TTTTTCAACCTT	GCTCTGGCAGATGCCTTAGCCACCAAGTACCCCTGCCCTTCCAGAGTGTGA	600	
Db	538	TTTTTCAACCTT	GCTCTGGCAGATGCCTTAGCCACCAAGTACCCCTGCCCTTCCAGAGTGTGA	597	
Qy	601	ATTACCTTAAT	TGGGAACAATGGCCATTTTGGAAACCATCTCTTGGCAAGATAGTGAATCTCCATAG	660	
Db	598	ATTACCTTAAT	TGGGAACAATGGCCATTTTGGAAACCATCTCTTGGCAAGATAGTGAATCTCCATAG	657	
Qy	661	ATTACTATAA	CATGTTCACAGCATATTCACCTCTGCAACCATGAGTGTGTGATCGATACA	720	
Db	658	ATTACTATAA	CATGTTCACAGCATATTCACCTCTGCAACCATGAGTGTGTGATCGATACA	717	
Qy	721	TTGCAGTCTG	CGACCTGTCAAGGCCTTAGATTTCCGTACTCCCGCAAAATGCCAAATTA	780	
Db	718	TTGCAGTCTG	CGACCTGTCAAGGCCTTAGATTTCCGTACTCCCGCAAAATGCCAAATTA	777	
Qy	781	TCAATGTCTG	CAATCGATCCTCTCTTCAGCCATTTGGTCTTCTCTGTAATTTTCATGGCTA	840	
Db	778	TCAATGTCTG	CAATCGATCCTCTCTTCAGCCATTTGGTCTTCTCTGTAATTTTCATGGCTA	837	
Qy	841	CAACAAATAA	CACAGCAAGGTTCCATAGATTTGTACATAACATTTCTCTCATCCAAACCTGGT	900	
Db	838	CAACAAATAA	CACAGCAAGGTTCCATAGATTTGTACATAACATTTCTCTCATCCAAACCTGGT	897	
Qy	901	ACTGGGAAAA	ACCTCGTGTGAAGATCTGTGTTTTTCATCTTCGCCTTCATTTATGCCAGTGCCTCA	960	
Db	898	ACTGGGAAAA	ACCTCGTGTGAAGATCTGTGTTTTTCATCTTCGCCTTCATTTATGCCAGTGCCTCA	957	
Qy	961	TCATTATCCG	TGTCTATGGACTGTATGTATCTTCGCGCTCAAGAGTGTCCGATGCTCTCTG	1020	
Db	958	TCATTATCCG	TGTCTATGGACTGTATGTATCTTCGCGCTCAAGAGTGTCCGATGCTCTCTG	1017	
Qy	1021	GCTCCAAAGAAA	AGGACGAGAACTCTTCGAAAGGATCACAGGATGGTCTCGTGGTGGTGG	1080	
Db	1018	GCTCCAAAGAAA	AGGACGAGAACTCTTCGAAAGGATCACAGGATGGTCTCGTGGTGGTGG	1077	
Qy	1081	CTGTGTTTCA	TGGTCTGTGGACTCCCAATTCACATTTTACGTTCATCATTTAAAGCCTTGGTTA	1140	
Db	1078	CTGTGTTTCA	TGGTCTGTGGACTCCCAATTCACATTTTACGTTCATCATTTAAAGCCTTGGTTA	1137	
Qy	1141	CAATCCCAAGAA	CACTACGTTCCAGACTGTTTCTTTGGCACTTCTGCAATGCTCTAGGTTACA	1200	
Db	1138	CAATCCCAAGAA	CACTACGTTCTTCAGACTGTTTCTTTGGCACTTCTGCAATGCTCTAGGTTACA	1197	
Qy	1201	CAAAACAGCT	GTGCTCAACCCAGTCCCTTTATGCAATTTCTGGATGAAAACCTTCAAAACGATGCT	1260	
Db	1198	CAAAACAGCT	GTGCTCAACCCAGTCCCTTTATGCAATTTCTGGATGAAAACCTTCAAAACGATGCT	1257	
Qy	1261	TCAGAGAGT	TTCTGTATCCCAACCTCTTCCAAACATTTGAGACAAAAAACCTCCACTCGAATTC	1320	
Db	1258	TCAGAGAGT	TTCTGTATCCCAACCTCTTCCAAACATTTGAGACAAAAAACCTCCACTCGAATTC	1317	
Qy	1321	GTCCAGAAC	CACCTAGAGACACCCCTCCAGCCGCATACAGTGGATAGAACTAATCATCAGC	1380	
Db	1318	GTCCAGAAC	CACCTAGAGACACCCCTCCAGCCGCATACAGTGGATAGAACTAATCATCAGC	1377	
Qy	1381	TAGAAAATCT	GGAAGCAGAACTGCTCGTTCGCCCTTAAACAGGGTCTCATGCAATCCGCAC	1440	
Db	1378	TAGAAAATCT	GGAAGCAGAACTGCTCGTTCGCCCTTAAACAGGGTCTCATGCAATCCGCAC	1437	
Qy	1441	CTTCCAAAGCT	TTAGAGCCACCAATGTATGTGGAAGCAGGTGCTTCAAGAAATGTGTAGG	1500	
Db	1438	CTTCCAAAGCT	TTAGAGCCACCAATGTATGTGGAAGCAGGTGCTTCAAGAAATGTGTAGG	1497	
Qy	1501	AGGCTCTAAT	TCTCTAGGAAAGTGCCTACTTTTAGGTTCATCCAAACCTCTTCTCTCTCGG	1560	
Db	1498	AGGCTCTAAT	TCTCTAGGAAAGTGCCTACTTTTAGGTTCATCCAAACCTCTTCTCTCTCGG	1557	

1561 CCACCTCTCTCTGACATTTAGAGGACAGCCCAAAAGTAAGTGGAGCATTTTGGAAAGGAAG 1620
1558 CCACCTCTCTCTGACATTTAGAGGACAGCCCAAAAGTAAGTGGAGCATTTTGGAAAGGAAG 1617
1621 GAATATACACACCGAGGAGTCCAGTTTGTGCAAGACACCCAGTGGAAACCCAAACCCCATC 1680
1618 GAATATACACACCGAGGAGTCCAGTTTGTGCAAGACACCCAGTGGAAACCCAAACCCCATC 1677
1681 GTGGTATGTGAATTTGAAGTCATATAAAGAGTGACCCCTCTGTCTGTGAAGATTTTATTTT 1740
1678 GTGGTATGTGAATTTGAAGTCATATAAAGAGTGACCCCTCTGTCTGTGAAGATTTTATTTT 1737
1741 CAAGCAAAATATTATGACCTCAACAAAGAAAGAACCATCTTTTGTGTTAAAGTTCAACGTAGTA 1800
1738 CAAGCAAAATATTATGACCTCAACAAAGAAAGAACCATCTTTTGTGTTAAAGTTCAACGTAGTA 1797
1801 ACACATAAGTAAATGCTACCTCTGATCAAAAGCACCTTTGAATGGAAGGTCGGAGTCTTTT 1860
1798 ACACATAAGTAAATGCTACCTCTGATCAAAAGCACCTTTGAATGGAAGGTCGGAGTCTTTT 1857
1861 TAGTGTGTTTGAAGGGAATGAATCCATTAATCTATTTTGAACCTTTTAACTTTCAACTTAA 1920
1858 TAGTGTGTTTGAAGGGAATGAATCCATTAATCTATTTTGAACCTTTTAACTTTCAACTTAA 1917
1921 AATTAGCATCTGGCTAAGGCATCATTTTCACTCCATTTCTGGTTTTGTTGTTTAA 1980
1918 AATTAGCATCTGGCTAAGGCATCATTTTCACTCCATTTCTGGTTTTGTTGTTTAA 1977
1981 AAAAAATAACATCTCTTTTCACTAGCTCCATTAATGCAAGGGAAGAGATTAGCATGAAGG 2040
1978 AAAAAATAACATCTCTTTTCACTAGCTCCATTAATGCAAGGGAAGAGATTAGCATGAAGG 2037
2041 TAATCTGAAACACAGTCATGTGTCTGTCANCTGTGAGAAAGTTGATTTCTATGCACTNCAATA 2100
2038 TAATCTGAAACACAGTCATGTGTCTGTCANCTGTGAGAAAGTTGATTTCTATGCACTNCAATA 2097
2101 CTTCCAAAGAGTCATCATGGGGGATTTTCACTTCTAGGCTTTCAGTGGTTTGTCTCTGG 2160
2098 CTTCCAAAGAGTCATCATGGGGGATTTTCACTTCTTAGGCTTTCAGTGGTTTGTCTCTGG 2157
2161 AATTC 2165
2158 AATTC 2162

RESULT 8
US-09-883-839-7
; Sequence 7, Application US/09883839
; Publication No. US20040209250A1
; GENERAL INFORMATION:
; APPLICANT: Kreek, Mary Jeanne
; APPLICANT: LaForge, Karl Steven
; TITLE OF INVENTION: Alleles of the Human Mu Opioid Receptor,
; TITLE OF INVENTION: Diagnostic Methods Using Said Alleles, and Methods of
; TITLE OF INVENTION: Treatment Based Thereon
; FILE REFERENCE: 600-1-266N
; CURRENT APPLICATION NUMBER: US/09/883,839
; CURRENT FILING DATE: 2001-06-18
; PRIOR APPLICATION NUMBER: 60/212,225
; PRIOR FILING DATE: 2000-06-16
; NUMBER OF SEQ ID NOS: 10
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 7
; LENGTH: 2162
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: 2063..2091
; OTHER INFORMATION: n = A,T,C or G
US-09-883-839-7

Query Match 99.1%; Score 2145.4; DB 3; Length 2162;
Best Local Similarity 99.8%; Pred. No. 0;
Matches 2161; Conservative 0; Mismatches 1; Indels 3; Gaps 1;
Qy 1 GGAATTCGGGCTATAGGCAGAGGAGAAATGTCCAGATGCTCAGCTCGGTCCCTCCGCTCGTGA 60
Db 1 GGAATTCGGGCTATAGGCAGAGGAGAAATGTCCAGATGCTCAGCTCGGTCCCTCCGCTCGTGA 60
Qy 61 CGCTCCTCTCTGTCTCAGCCAGGACTGGTTTCTGTGAAGAAACAGCAGAGAGCTGTGGCAGC 120
Db 61 CGCTCCTCTCTGTCTCAGCCAGGACTGGTTTCTGTGAAGAAACAGCAGAGAGCTGTGGCAGC 120
Qy 121 GGGAAAAGGAAGCGGCTTGAGCGCTTGGAACCCCGAAAAGTCTCGGTGCTCTCGCTACCT 180
Db 121 GGGAAAAGGAAGCGGCTTGAGCGCTTGGAACCCCGAAAAGTCTCGGTGCTCTCGCTACCT 180
Qy 181 CGCACAGCGGTGCCCCCGGCGGTCAGTACATATGACAGAGCGCTGCCCCACAGAAACG 240
Db 181 CGCACAGCGGTGCCCCCGGCGGTCAGTACATATGACAGAGCGCTGCCCCACAGAAACG 240
Qy 241 CCAGCAATTCGACTGATGCCCTTGCGGTACTCAAGTTGCTCCCGAGCAGCCCGGCTT 300
Db 241 CCAGCAATTCGACTGATGCCCTTGCGGTACTCAAGTTGCTCCCGAGCAGCCCGGCTT 300
Qy 301 CTTGGGTCAACTTGTCCCACTTAGATGGCAACCTGTCCGACCCCATGCGGTCCGAAACGCA 360
Db 301 CTTGGGTCAACTTGTCCCACTTAGATGGCAACCTGTCCGACCCCATGCGGTCCGAAACGCA 360
Qy 361 CCAACTTGGGCGGAGAGACAGCCCTGTGCCCTCCGACCGGCGGCGAGTCCCTCCATGATCA 420
Db 361 CCAACTTGGGCGGAGAGACAGCCCTGTGCCCTCCGACCGGCGGCGAGTCCCTCCATGATCA 417
Qy 421 CGGCCATCAGATCATGGCCCTCTACTCAGTGTGCTGGTGGGGCTCTTCGGAACCT 480
Db 418 CGGCCATCAGATCATGGCCCTCTACTCAGTGTGCTGGTGGGGCTCTTCGGAACCT 477
Qy 481 TCCTGGTCAATGATGATTTGTAGATACACCAAGATGAAGACTGCCACCAACATCTACA 540
Db 478 TCCTGGTCAATGATGATTTGTAGATACACCAAGATGAAGACTGCCACCAACATCTACA 537
Qy 541 TTTTCAAACCTTGTCTGGCAGATGCCCTTAGCCACAGTACCCCTGCCCTTCCAGAGTGTGA 600
Db 538 TTTTCAAACCTTGTCTGGCAGATGCCCTTAGCCACAGTACCCCTGCCCTTCCAGAGTGTGA 597
Qy 601 ATTACCTTAATGGGAACATGSCCATTTGGAACCATCTTTTGAAGATAGTATCTCCATAG 660
Db 598 ATTACCTTAATGGGAACATGSCCATTTGGAACCATCTTTTGAAGATAGTATCTCCATAG 657
Qy 661 ATTACTATAACATGTTCCACAGCATATTTCAACCTCTGCACCATGAGTGTGATCGATACA 720
Db 658 ATTACTATAACATGTTCCACAGCATATTTCAACCTCTGCACCATGAGTGTGATCGATACA 717
Qy 721 TTGCAGTCTGCCACCTGTCAAGGCTTAGATTTCCGTACTCCCCGAAATGCCAAATTA 780
Db 718 TTGCAGTCTGCCACCTGTCAAGGCTTAGATTTCCGTACTCCCCGAAATGCCAAATTA 777
Qy 781 TCAATGTCTGAACTGGATCCTCTCTCAGGCATGTGCTCTCTGTAATGTTTATGCTGCTA 840
Db 778 TCAATGTCTGAACTGGATCCTCTCTCAGGCATGTGCTCTCTGTAATGTTTATGCTGCTA 837
Qy 841 CAACAAAATACAGCAAGGTTTCCATAGATGTAACATAACATTTCTCTCATCCAACTGGT 900
Db 838 CAACAAAATACAGCAAGGTTTCCATAGATGTAACATAACATTTCTCTCATCCAACTGGT 897
Qy 901 ACTGGGAAAAACCTCGTGAAGATCTGTTTTTTCATCTTTTCCGCTTTCATTTATGCCAGTGTCA 960
Db 898 ACTGGGAAAAACCTCGTGAAGATCTGTTTTTTCATCTTTTCCGCTTTCATTTATGCCAGTGTCA 957
Qy 961 TCATTACCGTGTGCTATGGAGTATGATCTTGGCCCTCAAGAGTGTCCGATGCTCTCTG 1020
Db 958 TCATTACCGTGTGCTATGGAGTATGATCTTGGCCCTCAAGAGTGTCCGATGCTCTCTG 1017
Qy 1021 GCTCCAAAGAAAAGGACAGGAATCTTCCGAAGGATCACCAGGATGCTGCTGTGTGTGG 1080

[illegible]

Db	2098	CTTCCAAAGAGTCATCATGCGGGGATTTTTCATTTCTTAGGCTTTTCAGTGGTTTGTTCCTGG	215
Qy	2161	AAATTC 2165	
Db	2158	AAATTC 2162	
<p>RESULT 9</p> <p>US-09-883-839-8</p> <p>; Sequence 8, Application US/09883839</p> <p>; Publication No. US20040209250A1</p> <p>; GENERAL INFORMATION:</p> <p>; APPLICANT: Kreek, Mary Jeanne</p> <p>; APPLICATOR: LaForge, Karl Steven</p> <p>; TITLE OF INVENTION: Alleles of the Human Mu Opioid Receptor,</p> <p>; TITLE OF INVENTION: Diagnostic Methods Using Said Alleles, and Methods of</p> <p>; TITLE OF INVENTION: Treatment Based Thereon</p> <p>; FILE REFERENCE: 600-1-266N</p> <p>; CURRENT APPLICATION NUMBER: US/09/883,839</p> <p>; CURRENT FILING DATE: 2001-06-18</p> <p>; PRIOR APPLICATION NUMBER: 60/212,225</p> <p>; PRIOR FILING DATE: 2000-06-16</p> <p>; NUMBER OF SEQ ID NOS: 10</p> <p>; SOFTWARE: FastSeq for Windows Version 4.0</p> <p>; SEQ ID NO 8</p> <p>; LENGTH: 2162</p> <p>; TYPE: DNA</p> <p>; ORGANISM: Homo sapiens</p> <p>; FEATURE:</p> <p>; NAME/KEY: misc_feature</p> <p>; LOCATION: 2063, 2091</p> <p>; OTHER INFORMATION: n = A,T,C or G</p> <p>US-09-883-839-8</p>			
<p>Query Match 99.1%; Score 2145.4; DB 3; Length 2162;</p> <p>Best Local Similarity 99.8%; Pred. No. 0;</p> <p>Matches 2161; Conservative 0; Mismatches 1; Indels 3; Gaps 1</p>			
Qy	1	GGAAATTCGGCTATAGGCAGAGGAGAATGTCAGATGCTCAGCTCGGTCCCTCCGCTCGA	60
Db	1	GGAAATTCGGCTATAGGCAGAGGAGAATGTCAGATGCTCAGCTCGGTCCCTCCGCTCGA	60
Qy	61	CGCTCCTCTGTCCTCAGCCAGGACTGGTTTCTGTAGAAACACAGCAGAGCTGTGGCAGC	120
Db	61	CGCTCCTCTGTCCTCAGCCAGGACTGGTTTCTGTAGAAACACAGCAGAGCTGTGGCAGC	120
Qy	121	GGCGAAAGGAACGGCTGAGCGCTTGGAAACCCGAAAGTCTCGGTGCTCCTCGCTACCT	180
Db	121	GGCGAAAGGAACGGCTGAGCGCTTGGAAACCCGAAAGTCTCGGTGCTCCTCGCTACCT	180
Qy	181	CGCACAGCGGTGCCCGCCCGCCCTCAGTACCATGGACAGAGCGGTGCCCCACGAAACG	240
Db	181	CGCACAGCGGTGCCCGCCCGCCCTCAGTACCATGGACAGAGCGGTGCCCCACGAAACG	240
Qy	241	CCAGCAATTTGACCTGATGCTTGGCGGTCTCAAGTTGCTCCCGACGACCCAGCCCGGT	300
Db	241	CCAGCAATTTGACCTGATGCTTGGCGGTCTCAAGTTGCTCCCGACGACCCAGCCCGGT	300
Qy	301	CCTGGGTCAACTTGTGCCCACTTAGATGGCAACCTGTCGACCCCATGCGGTCCGAACCGCA	360
Db	301	CCTGGGTCAACTTGTGCCCACTTAGATGGCAACCTGTCGACCCCATGCGGTCCGAACCGCA	360
Qy	361	CCAACTCGGGCGGAGACAGCCTGTGCCCTCCGACCGGCGGCAAGTCCCTCCATGATCA	420
Db	361	CCAACTCGGGCGGAGACAGCCTGTGCCCTCCGACCGGCGGCAAGTCCCTCCATGATCA	420
Qy	421	CGGCCATCACGATCATGSCCTCTACTCCATCGTGTGGTGGGGCTCTTCGGAACCT	480
Db	421	CGGCCATCACGATCATGSCCTCTACTCCATCGTGTGGTGGGGCTCTTCGGAACCT	480
Qy	481	TCCTGGTCACTGATGTGATTTGTGACATACCAAGATGAAGACTGCGCAACCAACTTACA	540
Db	478	TCCTGGTCACTGATGTGATTTGTGACATACCAAGATGAAGACTGCGCAACCAACTTACA	537

Db 66 TCTGTCTCAGCCAGGACTGTTTCTGTAGAAACAGCAGGAGCTGTGGCAGCGGGAAG 125
QY 129 GAAGCGGCTGAGCGCTTGGAAACCCGAAAGTCTCGGTGCTCTCGGTACCTCGCACAGC 188
Db 126 GAAGCGGCTGAGCGCTTGGAAACCCGAAAGTCTCGGTGCTCTCGGTACCTCGCACAGC 185
QY 189 GGTGCCCGCCGCGCTGAGTACCTAGTACAGCAGCGCTGCCCCACAGAAACCCAGCAAT 248
Db 186 GGTGCCCGCCGCGCTGAGTACCTAGTACAGCAGCGCTGCCCCACAGAAACCCAGCAAT 245
QY 249 TGCACCTGATGCTTGGCGTACTCAAGTTCCTCCAGCACACCAGGCCCGGTTCTGGGTC 308
Db 246 TGCACCTGATGCTTGGCGTACTCAAGTTCCTCCAGCACACCAGGCCCGGTTCTGGGTC 305
QY 309 AACTTGTGTCACCTAGATGGCAACCTGTCCGACCCATGCGGTCCGNAACCGCAACCACTG 368
Db 306 AACTTGTGTCACCTAGATGGCAACCTGTCCGACCCATGCGGTCCGNAACCGCAACCACTG 365
QY 369 GCGGGAGAGACAGCTGTGCCCCGACCGCGGCGAGTCCCTCCATGATCACGGCCATC 428
Db 366 GCGGGAGAGACAGCTGTGCCCCGAC--CGGCGAGTCCCTCCATGATCACGGCCATC 422
QY 429 ACGATCATGGCCCTTACTCCATCGTGTGGTGGGCTCTTCGSAACCTTCTCGGTC 488
Db 423 ACGATCATGGCCCTTACTCCATCGTGTGGTGGGCTCTTCGSAACCTTCTCGGTC 482
QY 489 ATGTATGTGATGTGATAGATACACCAAGATGAAGATGCGCACCAACATCTACATTTCAAC 548
Db 483 ATGTATGTGATGTGATAGATACACCAAGATGAAGATGCGCACCAACATCTACATTTCAAC 542
QY 549 CTTGCTCTGGCAGATGCTTAGCCACAGTACCTGCGCTTCCAGAGTGTGAATTAACCTA 608
Db 543 CTTGCTCTGGCAGATGCTTAGCCACAGTACCTGCGCTTCCAGAGTGTGAATTAACCTA 602
QY 609 ATGGGAACATGGCCATTTGGAAACCATCTTTGCAAGATAGTATCTCCATAGATTAAT 668
Db 603 ATGGGAACATGGCCATTTGGAAACCATCTTTGCAAGATAGTATCTCCATAGATTAAT 662
QY 669 AACATGTTCCACAGCATATTCACCCCTGCGACCATGAGTGTGATCGATACATTCGATC 728
Db 663 AACATGTTCCACAGCATATTCACCCCTGCGACCATGAGTGTGATCGATACATTCGATC 722
QY 729 TGCACCCCTGTGAAGCCTTAGATTTCCGTAATTCCTGTAATGTTTCATGGCTACAAACAAA 788
Db 723 TGCACCCCTGTGAAGCCTTAGATTTCCGTAATTCCTGTAATGTTTCATGGCTACAAACAAA 782
QY 789 TGCAACTGGATCTCTCTTCAGGCATTTGCTTCTGTAATGTTTCATGGCTACAAACAAA 848
Db 783 TGCAACTGGATCTCTCTTCAGGCATTTGCTTCTGTAATGTTTCATGGCTACAAACAAA 842
QY 849 TACAGGCAAGGTTCCATAGATTTACACTAACATCTCTCATCCAACTGGTACTGGGAA 908
Db 843 TACAGGCAAGGTTCCATAGATTTACACTAACATCTCTCATCCAACTGGTACTGGGAA 902
QY 909 AACCTGTGAAGATCTGTGTTTTCATCTTCGCTTCAATGACAGTGTCTCATATACC 968
Db 903 AACCTGTGAAGATCTGTGTTTTCATCTTCGCTTCAATGACAGTGTCTCATATACC 962
QY 969 GTGTGCTATGCACTGATGATCTTCGCGCTCAAGAGTGTCCGATGCTCTCTGGCTCCAAA 1028
Db 963 GTGTGCTATGCACTGATGATCTTCGCGCTCAAGAGTGTCCGATGCTCTCTGGCTCCAAA 1022
QY 1029 GAAAGGACAGGAATCTTCGAAGGATCACAGGATGCTGTGGTGGTGGTGGTGGTGGTGGTTC 1088
Db 1023 GAAAGGACAGGAATCTTCGAAGGATCACAGGATGCTGTGGTGGTGGTGGTGGTGGTGGTTC 1082
QY 1089 ATCGTCTGTGGACTCCCATTTACATTTAGTATCATTAAGCTTGGTTAGATTTCAATCCCA 1148
Db 1083 ATCGTCTGTGGACTCCCATTTACATTTAGTATCATTAAGCTTGGTTAGATTTCAATCCCA 1142
QY 1149 GAAACTACGTTCCAGACTGTTTCTGGCACTTCTGCAATGCTCTAGGTTACACAAACAGC 1208

Db 1143 GAAACTACGTTCCAGACTGTTTCTTGGCACTTCTGCAATTCCTAGGTTACACAAACAGC 1202
QY 1209 TGCCTCAACCCAGCTCTTTTATGCAATTTCTGATGAAAACTTCAAAACGATGCTTTCAGAGAG 1268
Db 1203 TGCCTCAACCCAGCTCTTTTATGCAATTTCTGATGAAAACTTCAAAACGATGCTTTCAGAGAG 1262
QY 1269 TTCTGTATCCCAACCTCTTCCAACTTTCAGCAACAAACTCCACTCGAATTCGTTCAGAAC 1328
Db 1263 TTCTGTATCCCAACCTCTTCCAACTTTCAGCAACAAACTCCACTCGAATTCGTTCAGAAC 1322
QY 1329 ACTAGAGACCACTCCCTCCACGGCCAAATACAGTGTAGATACTAATCATCAGCTAGAAAAAT 1388
Db 1323 ACTAGAGACCACTCCCTCCACGGCCAAATACAGTGTAGATACTAATCATCAGCTAGAAAAAT 1382
QY 1389 CTGGAAGCAGAAAACTGCTCCGTTGCTTAAACAGGGTCTCATGCCATTCGCGACTTCACCA 1448
Db 1383 CTGGAAGCAGAAAACTGCTCCGTTGCTTAAACAGGGTCTCATGCCATTCGCGACTTCACCA 1442
QY 1449 AGCTTAGAAGCCACCATGTATGTGGAAGCAGGTTGCTTCAAGAAATGTGTAGAGGCTCTA 1508
Db 1443 AGCTTAGAAGCCACCATGTATGTGGAAGCAGGTTGCTTCAAGAAATGTGTAGAGGCTCTA 1502
QY 1509 ATTCTCTAGGAAGTGCCTACTTTTAGTGTATCCAACTCTTCTCTCTGCGCACTCTG 1568
Db 1503 ATTCTCTAGGAAGTGCCTACTTTTAGTGTATCCAACTCTTCTCTCTGCGCACTCTG 1562
QY 1569 CTCTGCACATTAGAGGGACAGCCAAAGTAAAGTGGAGCATTTTGGAGGAAGAAATATATAC 1628
Db 1563 CTCTGCACATTAGAGGGACAGCCAAAGTAAAGTGGAGCATTTTGGAGGAAGAAATATATAC 1622
QY 1629 CACACCGAGGAGTCCAGTTTGTGGAAGACACCCAGTGGAAACCAAAACCCATCGTGGTATG 1688
Db 1623 CACACCGAGGAGTCCAGTTTGTGGAAGACACCCAGTGGAAACCAAAACCCATCGTGGTATG 1682
QY 1689 TGAATTTGAAGTATCATTAAGAGGTGACCCCTCTGCTGTAAGATTTTATTTTCAAGCAAA 1748
Db 1683 TGAATTTGAAGTATCATTAAGAGGTGACCCCTCTGCTGTAAGATTTTATTTTCAAGCAAA 1742
QY 1749 TATTTATGACCTCAACAAAGAAACCATCTTTTGTAAAGTTTCAAGTGTAGTAAACATAA 1808
Db 1743 TATTTATGACCTCAACAAAGAAACCATCTTTTGTAAAGTTTCAAGTGTAGTAAACATAA 1802
QY 1809 AGTAAATGCTACCTCTGATCAAGACACCTTGAATGGAAGGTCGAGTCTTTTAGTGTAT 1868
Db 1803 AGTAAATGCTACCTCTGATCAAGACACCTTGAATGGAAGGTCGAGTCTTTTAGTGTAT 1861
QY 1869 TTGGAAGGGAATGAATTCATTTTATTTAGCTTTTAACTTCAACTTAAATTTAGCA 1928
Db 1862 TTGGAAGGGAATGAATTCATTTTATTTAGCTTTTAACTTCAACTTAAATTTAGCA 1921
QY 1929 TCTGGCTAAGGCATCATTTTCACTTCTTGGTTTGTATTTTGTATTTTAAAAAAATAA 1988
Db 1922 TCTGGCTAAGGCATCATTTTCACTTCTTGGTTTGTATTTTGTATTTTAAAAAAATAA 1980
QY 1989 CATCTCTTTTCACTAGCTCCATAATTTGCAAGGGAAGAGATTTAGCATGAAGGTAATCTGA 2048
Db 1981 CATCTCTTTTCACTAGCTCCATAATTTGCAAGGGAAGAGATTTAGCATGAAGGTAATCTGA 2040
QY 2049 AACACAGTCAATGTGTGCTAGAAAGGTTGATTTCTCATGCACTTCAATCTTCCAA 2108
Db 2041 AACACAGTCAATGTGTGCTAGAAAGGTTGATTTCTCATGCACTCAATCTTCCAA 2100
QY 2109 GAGTCAATCATGGGGAATTTTTCATTTCTTAGGCTTTTTCAGTGGTTTGTTC 2157
Db 2101 GAGTCAATCATGGGGAATTTTTCATTTCTTAGGCTTTTTCAGTGGTTTGTTC 2149

RESULT 11
US-10-477-714-33
; Sequence 33, Application US/10477714
; Publication No. US2005003018A1
; GENERAL INFORMATION:
; APPLICANT: LAL, Preeti G.; WARREN, Bridget A.;

		Query Match	61.9%; Score 1340.4; DB 5; Length 1473;
		Best Local Similarity	99.0%; Pred. No. 0;
		Matches 1360; Conservative	0; Mismatches 11; Indels 3; Gaps 1;
Qy	1449	AGCTTAGAAGCCACCATGATGTGTGAAGCAGGGTTCCTCAAGAATGTGTAGGAGGCTCTA	1508
Dd	1438	AGCTTAGAAGCCACCATGATGTGTGAAGCAGGGTTCCTCAAGAATGTGTAGGAGGCTCTA	1497
Qy	1509	ATTCTCTAGGAAAGTGCCCTACTTTTAGGTGATCAACAACCTCTTCCCTCTGTGCCACTCTG	1568
Dd	1498	ATTCTCTAGGAAAGTGCCCTACTTTTAGGTGATCAACAACCTCTTCCCTCTGTGCCACTCTG	1557
Qy	1569	CTCTGCACATTTAGAGGGACGCCAAAAGTAAGTGGAGCATTTGGAAGGAAAAGGAATATAC	1628
Dd	1558	CTCTGCACATTTAGAGGGACGCCAAAAGTAAGTGGAGCATTTGGAAGGAAAAGGAATATAC	1617
Qy	1629	CACACCGAGGAGTCCAGTTTGTGCAAGACACCACAGTGGAAACCAAACCCCATCGTGGTATG	1688
Dd	1618	CA-ACCGAGGAGTCCAGTTTGTGCAAGACACCACAGTGGAAACCAAACCCCATCGTGGTATG	1676
Qy	1689	TGAATTGAAGTCATCATAAAAAGGTGACCCCTCTGTCTGTGTAAGATTTATTTTCAACAAA	1748
Dd	1677	TGAATTGAAGTCATCATAAAAAGGTGACCCCTCTGTCTGTGTAAGATTTATTTTCAACAAA	1736
Qy	1749	TATTTATCACCTCAACAAGAAAGAACCATCTTTTTTAAAGTTCACCGTAGTAACACATAA	1808
Dd	1737	TATTTATGACCTCAACAAGAAAGAACCATCTTTTTTAAAGTTCACCGTAGTAACACATAA	1796
Qy	1809	AGTAAATGCTACTCTCGATCAAAGCACCTTGAATGGAAGGTCCGAGTCTTTTTTAGTGTTT	1868
Dd	1797	AGTAAATGCTACTCTCGATCAAAGCACCTTGAATGGAAGGTCCGAGTCTTTTTTAGTG-TT	1855
Qy	1869	TTGCAAGGGAATGAATCCATTATTTCTATTTTATTTAGACTTTTAACTTCAACTTAAATTAGCA	1928
Dd	1856	TTGCAAGGGAATGAATCCATTATTTCTATTTTATTTAGACTTTTAACTTCAACTTAAATTAGCA	1915
Qy	1929	TCTGCTAAGGCATCATTTTCACTCCAATTTCTTGGTATTGTATTGTTTAAAAAAATAA	1988
Dd	1916	TCTGCTAAGGCATCATTTTCACTCCAATTTCTTGGTATTGTATTGTTT-AAAAAAATAA	1974
Qy	1989	CATCTCTTTTCATCTAGCTCCATAATTGCAAGGGAAGAGATTAGCATGAAAAGTAAATCTGA	2048
Dd	1975	CATCTCTTTTCATCTAGCTCCATNAATTGCAAGGGAAGAGATTAGCATGAAAAGTAAATCTGA	2034
Qy	2049	AACACAGTCATGTGCANCTGTAGAAAGGTTGATTCTCATGCACTNCAAAATATCTCAA	2108
Dd	2035	AACACAGTCATGTGCAGCTGTAGAAAGGTTGATTCTCATGCACTGCAAAATATCTCAA	2094
Qy	2109	GAGTCATCATGGGGATTTTTTCATTTCTTAGGCTTTTCAGTGGTTGTTCCCT	2158
Dd	2095	GAGTCATCATGGGGATTTTTTCATTTCTTAGGCTTTTCAGTGGTTGTTCCCT	2144
	RESULT 12		
	US-10-080-917-13		
	; Sequence 13, Application US/10080917		
	; Publication No. US20030054451A1		
	; GENERAL INFORMATION:		
	; APPLICANT: Cadet, Patrick		
	; APPLICANT: Stefano, George B.		
	; TITLE OF INVENTION: Opiate Receptors		
	; FILE REFERENCE: 09598-006001		
	; CURRENT APPLICATION NUMBER: US/10/080,917		
	; PRIOR FILING DATE: 2002-02-22		
	; PRIOR APPLICATION NUMBER: US 60/270,479		
	; PRIOR FILING DATE: 2001-02-22		
	; PRIOR APPLICATION NUMBER: US 60/336,677		
	; PRIOR FILING DATE: 2001-12-05		
	; NUMBER OF SEQ ID NOS: 28		
	; SOFTWARE: FastSeq for Windows Version 4.0		
	; SEQ ID NO 13		
	; LENGTH: 1473		
	; TYPE: DNA		
	; ORGANISM: Homo Sapiens		
	US-10-080-917-13		

Sequence 544, Application US/09826509
Publication No. US20030204073A1
GENERAL INFORMATION:
APPLICANT: Lehmann-Bruinsma, Karin
APPLICANT: Liaw, Chen W.
APPLICANT: Lin, I-Lin
TITLE OF INVENTION: No. US20030204073A1-Endogenous, Constitutively Activated Known G
FILE REFERENCE: AREN-207
CURRENT APPLICATION NUMBER: US/09/826,509
CURRENT FILING DATE: 2001-04-05
PRIORITY APPLICATION NUMBER: 60/195,747
PRIORITY FILING DATE: 2000-04-07
PRIORITY APPLICATION NUMBER: 09/170,496
PRIORITY FILING DATE: 1998-10-13
NUMBER OF SEQ ID NOS: 589
SOFTWARE: PatentIn Version 2.1
SEQ ID NO 544
LENGTH: 1203
TYPE: DNA
ORGANISM: Homo sapiens
US-09-826-509-544

Query Match 54.8%; Score 1186.8; DB 3; Length 1203;
Best Local Similarity 99.6%; Pred. No. 0;
Matches 1201; Conservative 0; Mismatches 2; Indels 3; Gaps 1;

Qy	213	ATGCACAGCAGCGCTGCCCCACGAAAGCCAGCAATTCGACTGATGCCTTGGCGGTACTCA	272
Db	1	ATGCACAGCAGCGCTGCCCCACGAAAGCCAGCAATTCGACTGATGCCTTGGCGGTACTCA	60
Qy	273	AGTTGCTCCCCAGCACCCAGCGGTTCTGGGTCAAATTTGCCCACTTAGATGGCAAC	332
Db	61	AGTTGCTCCCCAGCACCCAGCGGTTCTGGGTCAAATTTGCCCACTTAGATGGCAAC	120
Qy	333	CTGTCCGACCCCATGGGTCCGAAACCGACCAACCTGGGGGGGAGAGACAGCTGTGCCCT	392
Db	121	CTGTCCGACCCCATGGGTCCGAAACCGACCAACCTGGGGGGGAGAGACAGCTGTGCCCT	180
Qy	393	CCGACCGGGGCGAGTCCCTCATATGATCAGCGCCATCAGATCATGGCCCTCTACTCCATC	452
Db	181	CCGAC---CGGCGTCCCTCATATGATCAGCGCCATCAGATCATGGCCCTCTACTCCATC	237
Qy	453	GTGTGCGTGTGGGGCTCTTCGGAAACCTTCCTGGTCAATGTATGTGATTTGCAGATACCC	512
Db	238	GTGTGCGTGTGGGGCTCTTCGGAAACCTTCCTGGTCAATGTATGTGATTTGCAGATACCC	297
Qy	513	AAGATGAAGACTGCCACCAACATCTACATTTTCAACCTTGCTTGGCAGATGCCCTTAGCC	572
Db	298	AAGATGAAGACTGCCACCAACATCTACATTTTCAACCTTGCTTGGCAGATGCCCTTAGCC	357
Qy	573	ACGAGTACCTGCCCTTCAGAGTGTGAATTAACCTTAATGGGAAACATGCCATTTGGAAAC	632
Db	358	ACGAGTACCTGCCCTTCAGAGTGTGAATTAACCTTAATGGGAAACATGCCATTTGGAAAC	417
Qy	633	ATCCTTTGCAAGATAGTCACTCCATAGATTACTATAACATGTTCCACAGCATATTCACC	692
Db	418	ATCCTTTGCAAGATAGTCACTCCATAGATTACTATAACATGTTCCACAGCATATTCACC	477
Qy	693	CTCTGCACCATGAGTGTTCGATACATTTGAGTCTGCCACCTGTCAAGSCCTTAGAT	752
Db	478	CTCTGCACCATGAGTGTTCGATACATTTGAGTCTGCCACCTGTCAAGSCCTTAGAT	537
Qy	753	TTCCGTACTCCCGAAATGCCAAATTAATCAATGTCTGGAACTGGATCTCTCTTCAGCC	812
Db	538	TTCCGTACTCCCGAAATGCCAAATTAATCAATGTCTGGAACTGGATCTCTCTTCAGCC	597
Qy	813	ATTGGTCTTCCTGTAATCTTCATGTGCTACACAAATATACAGGCAAGTTCCATAGATTGT	872
Db	598	ATTGGTCTTCCTGTAATCTTCATGTGCTACACAAATATACAGGCAAGTTCCATAGATTGT	657
Qy	873	ACACTAACATTTCTCTCATCCCAACCTTGCTACCTGGGAAACCTCGTGAAGATCTGTGTTTC	932

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OM nucleic - nucleic search, using sw model

Run on: January 8, 2006, 19:50:21 ; Search time 309,944 Seconds
(without alignments)
5092.624 Million cell updates/sec

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Sequence: 1 ggaatccggctataggcag.....gtggtttcttcggaattc 2165

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 4637633 seqs, 364532575 residues

Total number of hits satisfying chosen parameters: 9275266

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published Applications NA New.*
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2: /cgn2_6/ptodata/2/pubpna/US06_NEW_PUB.seq.*
3: /cgn2_6/ptodata/2/pubpna/US07_NEW_PUB.seq.*
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7: /cgn2_6/ptodata/2/pubpna/US11_NEW_PUB.seq.*
8: /cgn2_6/ptodata/2/pubpna/US11_NEW_PUB.seq2.*
9: /cgn2_6/ptodata/2/pubpna/US11_NEW_PUB.seq3.*
10: /cgn2_6/ptodata/2/pubpna/US60_NEW_PUB.seq.*

pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	2147	99.2	2162	7	US-11-127-877-18
2	459.8	21.2	1423	7	US-11-136-527-2066
3	362.6	16.7	2955	7	US-11-136-527-2954
4	233	10.8	8372	7	US-11-136-527-684
5	197.8	9.1	2116	7	US-11-136-527-3819
6	193.8	9.0	1685	6	US-10-750-185-36071
7	193.8	9.0	1685	6	US-10-750-623-36071
8	187.6	8.7	1238	6	US-10-995-561-320
9	187.6	8.7	1498	6	US-10-995-561-321
10	187.6	8.7	86131	6	US-10-995-561-13298
11	177	8.2	3635	7	US-11-136-527-2101
12	172.6	8.0	1384	7	US-11-136-527-2159
13	158.8	7.3	1560	7	US-11-136-527-3742
14	158.8	7.3	1865	6	US-10-533-355-9
15	151.8	7.0	856	6	US-10-750-185-62128
16	151.8	7.0	856	6	US-10-750-623-62128
17	143.4	6.6	1224	6	US-10-750-185-40492
18	143.4	6.6	1224	6	US-10-750-623-40492
19	125.6	5.8	600	7	US-11-136-527-6162
20	112.4	5.2	3985	7	US-11-136-527-3404
21	93.4	4.3	3219	7	US-11-136-527-4059
22	93.4	4.3	3295	7	US-11-136-527-3736
23	92.6	4.3	706	6	US-10-750-185-32790

c	24	92.6	4.3	706	6	US-10-750-623-32790	Sequence 32790, A
	25	88.6	4.1	1450	7	US-11-136-527-3841	Sequence 3841, Ap
	26	85.4	3.9	1339	7	US-11-136-527-4061	Sequence 4061, Ap
	27	85.4	3.9	2580	7	US-11-136-527-3525	Sequence 3525, Ap
c	28	83.8	3.9	600	6	US-10-750-185-20212	Sequence 20212, A
c	29	83.8	3.9	600	6	US-10-750-623-20212	Sequence 20212, A
	30	83.2	3.8	1915	7	US-11-068-686-3	Sequence 3, Appli
	31	83.2	3.8	1945	7	US-11-127-877-27	Sequence 27, Appli
	32	82.8	3.8	2011	7	US-11-136-527-3805	Sequence 3805, Ap
	33	82.2	3.8	201	6	US-10-995-561-9109	Sequence 9109, Ap
	34	82.2	3.8	201	6	US-10-995-561-9109	Sequence 9109, Ap
	35	82.2	3.8	201	6	US-10-995-561-4688	Sequence 4688, A
	36	82.2	3.8	2156	7	US-11-136-527-3843	Sequence 3843, Ap
c	37	81.2	3.8	810	6	US-10-750-185-50101	Sequence 50101, A
c	38	81.2	3.8	810	6	US-10-750-623-50101	Sequence 50101, A
	39	78.4	3.6	1116	7	US-11-136-527-2638	Sequence 2638, Ap
	40	77.2	3.6	1002	7	US-11-127-877-20	Sequence 20, Appli
	41	76.6	3.5	2338	6	US-10-876-787-1	Sequence 1, Appli
	42	76.6	3.5	2347	7	US-11-127-877-28	Sequence 28, Appli
	43	76.2	3.5	2214	6	US-10-995-561-196	Sequence 196, App
	44	76.2	3.5	2338	6	US-10-995-561-199	Sequence 199, App
	45	76.2	3.5	2363	6	US-10-995-561-197	Sequence 197, App

ALIGNMENTS

RESULT 1

US-11-127-877-18
; Sequence 18, Application US/11127877
; Publication NO. US20050287565A1
; GENERAL INFORMATION:
; APPLICANT: Hoffmann, Pascal G.
; APPLICANT: Spittaels, Koenraad F. F.
; APPLICANT: Laenen, Wendy
; TITLE OF INVENTION: Methods, Compositions and Compound Assays For Inhibiting Amyloid-Beta Protein Production
; FILE REFERENCE: P27, 800-B USA
; CURRENT APPLICATION NUMBER: US/11/127,877
; CURRENT FILING DATE: 2005-05-12
; PRIOR APPLICATION NUMBER: 60/570,352
; PRIOR FILING DATE: 2004-05-12
; PRIOR APPLICATION NUMBER: 60/603,948
; PRIOR FILING DATE: 2004-08-24
; NUMBER OF SEQ ID NOS: 590
; SOFTWARE: Patent in version 3.3
; SEQ ID NO 18
; LENGTH: 2162
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (2063)..(2063)
; OTHER INFORMATION: n is a, c, g, or t
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (2091)..(2091)
; OTHER INFORMATION: n is a, c, g, or t
; US-11-127-877-18

Query Match 99.2%; Score 2147; DB 7; Length 2162;
Matches Local Similarity 99.9%; Pred. No. 0;
Matches 2162; Conservative 0; Mismatches 0; Indels 3; Gaps 1;

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DB	1	GGAAATTCGGCTATAGCAGAGAGAAATGTCAGATGCTCAGCTCGGTCCCTCGGCTGA	60
QY	61	CGTCTCTCTGTCTCAGCCAGGACTGGTTCTGTGAAGAAACAGAGGAGCTGTGGCAGC	120
DB	61	CGTCTCTCTGTCTCAGCCAGGACTGGTTCTGTGAAGAAACAGAGGAGCTGTGGCAGC	120

QY 121 GCGAAAGGAGCGCTGAGCGCTTGGAACCCGAAAGTCTCGGTGCTCCTGGCTACCT 180
DB 121 GCGAAAGGAGCGCTGAGCGCTTGGAACCCGAAAGTCTCGGTGCTCCTGGCTACCT 180
QY 181 GCGACAGCGGTGCGCGCGCGCGCTGAGTACCATGAGACAGAGCGCTGCCCGCCAGAACG 240
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QY 301 CTTGGGTCAATTGTCCTGAGTACGACCTGTCGACCTGTCGACCGCATGCGGTCCGAAACGCA 360
DB 301 CTTGGGTCAATTGTCCTGAGTACGACCTGTCGACCGCATGCGGTCCGAAACGCA 360
QY 361 CCAACCTGGGCGGAGAGACAGCTGTCGCTCCGACCGGGGAGTCCCTCCATGATCA 420
DB 361 CCAACCTGGGCGGAGAGACAGCTGTCGCTCCGACCGGGGAGTCCCTCCATGATCA 417
QY 421 CGGCCATCAGATCATGCGCTCTACTCCATCGTGTGCGTGGTGGGCTCTTCGGAAACT 480
DB 418 CGGCCATCAGATCATGCGCTCTACTCCATCGTGTGCGTGGTGGGCTCTTCGGAAACT 477
QY 481 TCCTGGTCAATGATGATGTCAGATACACCAAGATGAAGCTGCCACCAACATCTACA 540
DB 478 TCCTGGTCAATGATGATGTCAGATACACCAAGATGAAGCTGCCACCAACATCTACA 537
QY 541 TTTTCAACCTTGTCTCGGACAGTGGCTTAGCCACAGTACCTCGCCCTTCAGAGTGTGA 600
DB 538 TTTTCAACCTTGTCTCGGACAGTGGCTTAGCCACAGTACCTCGCCCTTCAGAGTGTGA 597
QY 601 ATTACCTAATGGGAACATGGCCATTTGGAACCATCTCTTTGCAAGATAGTATCTCCATAG 660
DB 598 ATTACCTAATGGGAACATGGCCATTTGGAACCATCTCTTTGCAAGATAGTATCTCCATAG 657
QY 661 ATTACTATAACATGTTCCAGCATATTTACCCCTCTGCACCATGAGTGTGATCGATACA 720
DB 658 ATTACTATAACATGTTCCAGCATATTTACCCCTCTGCACCATGAGTGTGATCGATACA 717
QY 721 TTGCAGTCTGCCACCTGCTCAAGGCTTAGATTTCCGCTACTCCCGAAATGCCAAATTA 780
DB 718 TTGCAGTCTGCCACCTGCTCAAGGCTTAGATTTCCGCTACTCCCGAAATGCCAAATTA 777
QY 781 TCAATGTCGCAACTGGAATCTCTCTCAGGCAATGGTCTTCCTGTAAATGTCATGGCTA 840
DB 778 TCAATGTCGCAACTGGAATCTCTCTCAGGCAATGGTCTTCCTGTAAATGTCATGGCTA 837
QY 841 CAACAAAATACAGGCAAGGTTCCATAGATTGTACACTTAACATTTCTCATCCAACTGGT 900
DB 838 CAACAAAATACAGGCAAGGTTCCATAGATTGTACACTTAACATTTCTCATCCAACTGGT 897
QY 901 ACTGGGAAAACCTCGTGAAGATCTGTGTTTTCATCTCGCTTCATTAATGCGAGTCTCA 960
DB 898 ACTGGGAAAACCTCGTGAAGATCTGTGTTTTCATCTCGCTTCATTAATGCGAGTCTCA 957
QY 961 TCATTACCGTGTGCTATGGAATGATCTTTGGGCTCAAGAGTGTCCGCAATGCTCTCTG 1020
DB 958 TCATTACCGTGTGCTATGGAATGATCTTTGGGCTCAAGAGTGTCCGCAATGCTCTCTG 1017
QY 1021 GCTCCAAAAGAAAGACAGGAATCTTCAAGGATCACCAGATGGTGTGTTGGTGG 1080
DB 1018 GCTCCAAAAGAAAGACAGGAATCTTCAAGGATCACCAGATGGTGTGTTGGTGG 1077
QY 1081 CTGTGTTTCACTGCTGTGGAATCTCCATTCATATTTAGTCTCATTAAGCCTTGGTTA 1140
DB 1078 CTGTGTTTCACTGCTGTGGAATCTCCATTCATATTTAGTCTCATTAAGCCTTGGTTA 1137
QY 1141 CAATCCCAGAAACTACGTTCCAGACTGTTTCTTGCACTTCTGCAATGCTCTAGGTTACA 1200
DB 1138 CAATCCCAGAAACTACGTTCCAGACTGTTTCTTGCACTTCTGCAATGCTCTAGGTTACA 1197
QY 1201 CAACAGCTGCTCAACCCAGCTCTTTATGATCTTCTGGATGAAACTTCAACAGATGCT 1260

DB 1198 CAAACAGCTGCTCAACCCAGTCTTTATGATTTCTGGATGAAAACCTTCAACGATGCT 1257
QY 1261 TCAGAGAGTTCTGTATCCCAACCTCTTCCAAACATGAGCAACAAACCTCCATCGAATTC 1320
DB 1258 TCAGAGAGTTCTGTATCCCAACCTCTTCCAAACATGAGCAACAAACCTCCATCGAATTC 1317
QY 1321 GTGAGAACATAGAGACACCCCTCCAGGCGCAATACAGTGGATAGACTAATCATCAGC 1380
DB 1318 GTGAGAACATAGAGACACCCCTCCAGGCGCAATACAGTGGATAGACTAATCATCAGC 1377
QY 1381 TAGAAAATCTGGAAGCAGAAACTGCTCGTTGCCCTTAACAGGGTCTCATGCAATTCGCCAC 1440
DB 1378 TAGAAAATCTGGAAGCAGAAACTGCTCGTTGCCCTTAACAGGGTCTCATGCCATTCGCAC 1437
QY 1441 CTTCAACAAGCTTAGAAGCCACCATGTATGTGGAAGCAGGTTGCTTCAAGAATGTGTAGG 1500
DB 1438 CTTCAACAAGCTTAGAAGCCACCATGTATGTGGAAGCAGGTTGCTTCAAGAATGTGTAGG 1497
QY 1501 AGGCTCTAAATCTCTAGAAAAGTGCCTACTTTTAGGTCAATCCAACTCTTCTCTCTGG 1560
DB 1498 AGGCTCTAAATCTCTAGAAAAGTGCCTACTTTTAGGTCAATCCAACTCTTCTCTCTGG 1557
QY 1561 CCACCTGCTCTGCACATTTAGAGGACAGCCAAAGTAAAGTGGAGCATTTTGGAAAGGAAG 1620
DB 1558 CCACCTGCTCTGCACATTTAGAGGACAGCCAAAGTAAAGTGGAGCATTTTGGAAAGGAAG 1617
QY 1621 GAATATACACACCGAGGAGTCCAGTTTGTGCAAGACACCCAGTGGAAACCCCATC 1680
DB 1618 GAATATACACACCGAGGAGTCCAGTTTGTGCAAGACACCCAGTGGAAACCCCATC 1677
QY 1681 GTGTATGTGAATTTGAAGTCAATATAAAGGTGACCTTCTGTCTGTAAAGATTTTATTTT 1740
DB 1678 GTGTATGTGAATTTGAAGTCAATATAAAGGTGACCTTCTGTCTGTAAAGATTTTATTTT 1737
QY 1741 CAACCAATATTTATGACCTCAACAAAGAAAGAACCATCTTTTGTAAAGTTCACCGTAGTA 1800
DB 1738 CAACCAATATTTATGACCTCAACAAAGAAAGAACCATCTTTTGTAAAGTTCACCGTAGTA 1797
QY 1801 ACACATAAGTAAATGCTACTCTGATCAAGCACCTTGAATGGAAGTCCGAGTCTTTT 1860
DB 1798 ACACATAAGTAAATGCTACTCTGATCAAGCACCTTGAATGGAAGTCCGAGTCTTTT 1857
QY 1861 TAGTGTTTTTCAGAGGAATGAATCAATATTCTATTTTAGACTTTTAACTTCAACTTAA 1920
DB 1858 TAGTGTTTTTCAGAGGAATGAATCAATATTCTATTTTAGACTTTTAACTTCAACTTAA 1917
QY 1921 AATTAGCATCTGGCTAAGGCATCATTTTCACTCCATTTCTTGGTGTGTTGTTTAA 1980
DB 1918 AATTAGCATCTGGCTAAGGCATCATTTTCACTCCATTTCTTGGTGTGTTGTTTAA 1977
QY 1981 AAAAATAACATCTCTTTTCTATCTAGCTCCATAATTTGCAAGGGAAGAGATTAGCATGAAAG 2040
DB 1978 AAAAATAACATCTCTTTTCTATCTAGCTCCATAATTTGCAAGGGAAGAGATTAGCATGAAAG 2037
QY 2041 TAATCTGAAACACAGTCAATGTGTCACTGATAGAAAGGTTGATTTCTCATGCACTTCAATA 2100
DB 2038 TAATCTGAAACACAGTCAATGTGTCACTGATAGAAAGGTTGATTTCTCATGCACTTCAATA 2097
QY 2101 CTTCCAAAGAGTCAATGCGGGAATTTTCACTTCTTAGGCTTTTCAAGTGTGTTGTTCTGG 2160
DB 2098 CTTCCAAAGAGTCAATGCGGGAATTTTCACTTCTTAGGCTTTTCAAGTGTGTTGTTCTGG 2157
QY 2161 AATTCT 2165
DB 2158 AATTCT 2162


```
; APPLICANT: Wyeth
; APPLICANT: Mounts, William M
; TITLE OF INVENTION: Probe Arrays For Expression Profiling of Rat Genes
; FILE REFERENCE: 031896-041000 (AM101086)
; CURRENT APPLICATION NUMBER: US/11/136,527
; CURRENT FILING DATE: 2005-05-25
; PRIOR APPLICATION NUMBER: US 60/574,294
; PRIOR FILING DATE: 2005-05-26
; NUMBER OF SEQ ID NOS: 362830
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 2066
; LENGTH: 1423
; TYPE: DNA
; ORGANISM: Rattus norvegicus
US-11-136-527-2066

Query Match      21.2%; Score 459.8; DB 7; Length 1423;
Best Local Similarity 66.7%; Pred. No. 9.7e-130;
Matches 672; Conservative 0; Mismatches 332; Indels 3; Gaps 1;

QY 327 GCAACCTGTCGACCCATGCGGTGCGAAGCCGACCACTGGCGGGGAGACAGCCTG 386
DB 154 GCCAAGCTCTCGACACCTTCCCTAGCGCTTCCCGAGTGCAGCGCCAATCGTGGGG 213
QY 387 TGCCTCCGACCGGGCAGTCCCTCATGATCAGCGCATCAGCATATGCGCCCTCTAC 446
DB 214 TCGCGGGCGCGCGAGTCCCTGCTGGCTTGGCCATCGCCATCAGCGGCTCTAC 273
QY 447 TCATCGTGTGGTGGTGGGCTCTTCGGAATCTTCTGGTATGATGATGATGATGATG 506
DB 274 TCGGCTGTGTGGCTGGGCTGCTGGCGACGCTGCTGCTGCTGCTGCTGCTGCTGCT 333
QY 507 TACCAAGATGAAGACTGCGCCAAACATCTACATTTTCAACCTTGTCTGGCAGATGCC 566
DB 334 TACACTAAGCTGAAGACGCGCCAAACATCTACATCTTCAATCTTGGCTTGGCGATGG 393
QY 567 TTAGCCACCATGACCTGCGCTTCCAGAGTGTGAATTAATGGAACATGGCCATTT 626
DB 394 CTGGCCACCATGACATCTGGCTTCCAGAGCGCAAGTACTGATGGAACATGGCGTTTC 453
QY 627 GGAACCATCTTTGCAAGATAGTGTCTCCATAGATTACTATAACATGTTTCAACAGATA 686
DB 454 GGAAGCTGTGTGCAAGCTGTGCTCTCCATTGACTACTACAAATGTTTCAACAGCATC 513
QY 687 TTCACCTCTGCAACCATGATGTTGATGATGATGATGATGATGATGATGATGATGATG 746
DB 514 TTCACCTCTGCAACCATGATGATGATGATGATGATGATGATGATGATGATGATGATG 573
QY 747 TTAGATTTCCGTTACTCCCGAATGCCAAATTTATCAATGCTCTGCAACTGGATCTCTCT 806
DB 574 TTGGACTTCCGGAACACCGGCAAGGCAAGCTGATCAACATATGCAATCTGGTCTTGGCT 633
QY 807 TCAGCCATTTGCTCTCTGTAATGTTTATGCTGCTACAAACAAATACAGGCAAGGTTCCATA 866
DB 634 TCAGGTTGTTGGGTGCTCCCATGATGATGATGATGATGATGATGATGATGATGATGATG 693
QY 867 GATTGTACACTAACTCTCTCATATCCAACTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTT 926
DB 694 GTATGACGCTCCCACTTCCCGAGCCGAGCTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTT 753
QY 927 GTTTTCACTTTCGCTTCAATGTCAGTGTCTCATATTAACCGTGTGCTATGACATGATG 986
DB 754 GTGTTCTCTTTCGCTTTCGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTG 813
QY 987 ATCTTGGCTCTCAAGAGTGTCCGATGCTCTCTGGCTTCCAAAGAAAGGACAGGAATCTTT 1046
DB 814 CTGCTGGCTGTGGCAGCGTGGCTGCTGCTGGCTTCCAAAGGAGGAGGACCGAGCTG 873
QY 1047 CGAAGATCACAGGATGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTG 1106
DB 874 CGGCGCATCAGCGCATGGTGTGGTGTGGTGTGGTGTGGTGTGGTGTGGTGTGGTGTGG 933
QY 1107 ATTCACATATGAGTGCATCAATTAAGCCTTGGTTACAATC---CCAGAACTAGTCCAG 1163
```

RESULT 3

```
US-11-136-527-2954
; Sequence 2954, Application US/11136527
; Publication No. US20050287570A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William M
; TITLE OF INVENTION: Probe Arrays For Expression Profiling of Rat Genes
; FILE REFERENCE: 031896-041000 (AM101086)
; CURRENT APPLICATION NUMBER: US/11/136,527
; CURRENT FILING DATE: 2005-05-25
; PRIOR APPLICATION NUMBER: US 60/574,294
; PRIOR FILING DATE: 2005-05-26
; NUMBER OF SEQ ID NOS: 362830
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 2954
; LENGTH: 2955
; TYPE: DNA
; ORGANISM: Rattus norvegicus
US-11-136-527-2954
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Query Match      16.7%; Score 362.6; DB 7; Length 2955;
Best Local Similarity 62.6%; Pred. No. 8.7e-100;
Matches 560; Conservative 3; Mismatches 332; Indels 0; Gaps 0;

QY 427 TCACGATCATGGCCCTCTACTCCATCGTGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGG 486
DB 329 TCACCATCGTGGGGCTCTACTTTGGGCTGTGTGATCGGGGGGCTCTCTGGGGAACGCTCG 388
QY 487 TCATGTATGTGATTCGAGATACCAAGATCAAGACTGCCACCAACATCTACATTTTCA 546
DB 389 TCATGTATGTGATTCGAGGACACCAAGATGAGACAGTACCAACATTTACATATTTA 448
QY 547 ACCTTGTCTTGGCAGATGCTTTAGCCACGATACCCCTGCTCCCTTCCAGAGTGTGAATTACC 606
DB 449 ATCTGGCACTGGCTGATACCTTGGTCTTGTCTAACACTGGCTTCCAGSGSACAGACATCC 508
QY 607 TAATGGGAACATGGCCCATTTGGAAACATCTTTGCAAGATAGTATCTCCATAGATTACT 666
DB 509 TACTGGGCTCTTGGGCAATTTGGGAATGCACTCTGCAAGACTGTCTATGCTATGACTACT 568
QY 667 ATAAACATGTTTCCAGGATATTTCACCTCTGACCATGATGTTGATCGATACATTTGCAG 726
DB 569 ACAACATGTTTACCAGCACTTTTACTCTGACGCCATGAGCGTAGACCGCTATGTGCTA 628
QY 727 TCTGCCACCTCTCAAGGCTTTAGATTTCCGTACTCTCCCGAAATGCAAAATTTATCAATG 786
DB 629 TCTGCCACCTCTCCGTGCTTGTGTTGCGACATCCAGCAAGAGCCAGGCTGTTAAATG 688
QY 787 TCTGCAACTGGATTCCTCTCTTCCAGGCAATTTGCTTCTGTAATGTTTATGCTTACACAA 846
DB 689 TGSCCATATGGGCGCTTGGCTTTCAGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGG 748
QY 847 AATACAGGCAAGGTTCCATAGATTGATTAACATTTCTCTCATCCAACTGCTGTTACTGGG 906
DB 749 AAGTGAAGATGAAGAGATCGAGTGCCTGGTGGAGATCCCTTGCCTCCCTCAGGACTATTGG 808
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Qy	907	AAAACCTCGTCAAGATCTGTGTTTTCACTTCGGCCTTCATTATGCGCAGTGCTCATCAATTA	966
Db	809	GCCCTGATTGCGCATTCGCACTCTCTCTTTTTCCTTCATCATCCCTGTTSGATCATCT	868
Qy	967	CCGTGTGCTATGGACTGATGATCTTTGGCCCTCAAGAGTGTCCGCATGCTCTCTGGGTCCTCA	1026
Db	869	CTGTCTGCTACAGCCTCATGATTCGACGACTTCGTGGTGTCCGTCTCTTTCAGGCTCCC	928
Qy	1027	AAGAAAAGCAGGAATCTTCGAAGGATCACAGGATGGTCTGGTGGTGGTGGCTGTGT	1086
Db	929	GGGAGAGGACCGAAACCTCGGGCGTATCACTCGACTGGTCTGTGTAGTGTGGCTGTGT	988
Qy	1087	TCATCGTCTGTGCACTCCCATTCACATTTACGTATCATCTAAAGCCTTCGGTTACAAATCC	1146
Db	989	TTGTGGGCTGTGGACGCGCTGTGAGGTGTTTGTCTCGGTTCAAGGACTGGGTGTTTCAGC	1048
Qy	1147	CAGAAACTACGTTCCAGACTGTTTTCTTGGCACTTCTGCATTTGCTCTAGGTTTACACAAACA	1206
Db	1049	CAGGTATGAGACTGCGAGTTGCCATCCTGGCTTCTGCA CAGCCCTGGGCTATGTCMAACA	1108
Qy	1207	GCTGCCCTCAACCCAGTCCCTTTATGCATTTCTTGGATGAAAACTTCAAAACGATGCTTCAGAG	1266
Db	1109	GTTCGCTCAATCCCATTTCTATGCTTTCTTGGATGAGAACTTCAAGGCCCTGCTTTAGAA	1168
Qy	1267	AGTTCTGTATCCCAACCTCTTCCAAACATTTGAGCAACAAAACTCACTCGAATTCG	1321
Db	1169	AGTTCTGTGTGCTTCACTCCCTGCACGGGAGATGACAGGTTTCTGTATCGTGTGGC	1223

```

RESULT 4
US-11-136-527-684
; Sequence 684, Application US/11136527
; Publication No. US20050287570A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William M
; TITLE OF INVENTION: Probe Arrays For Expression Profiling of Rat Genes
; FILE REFERENCE: 031896-041000 (AM101086)
; CURRENT APPLICATION NUMBER: US/11/136,527
; CURRENT FILING DATE: 2005-05-25
; PRIOR APPLICATION NUMBER: US 60/574,294
; PRIOR FILING DATE: 2005-05-26
; NUMBER OF SEQ ID NOS: 362830
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 684
; LENGTH: 8372.
; TYPE: DNA
; ORGANISM: Rattus norvegicus
US-11-136-527-684

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	Query Match	10.8%	Score 233;	DB 7;	Length 8372;
	Best Local Similarity	56.4%;	Pred. No. 8e-60;		
	Matches 513;	Conservative 0;	Mismatches 315;	Indels 81;	Gaps 1;
Qy	494	TGTGATTGTCAGATACACCAAGATGAAGACTGCCACCAACATCTACATTTTCAACCTTGC	553		
Db	5100	TGTCCTCTACAGGCACACCAAGATGAAGACAGCTTACCAACATTTACATATTTAATCTGGC	5159		
Qy	554	TCGTGGCAGATGCCTTAGCCACCAAGTACCCCTGCCCTTCCAGAGCTGTAATTTACCTAATGGG	613		
Db	5160	ACTGGCTGATACCCCTGTGCTTTGTAACTTGCCTTCCAGGGCACAGACATCTTACTGGG	5219		
Qy	614	AACATGGCCATTTTGGAAACCATCTTTTCCAAAGATAGTGATCTCCAATAGATTACTATAACAT	673		
Db	5220	CTTCTGGCCATTTGGGAATGGACCTCTGCCAAGA CTGTCTATTTGCTATCGACTTACACAT	5279		
Qy	674	GTTCCACAGCATATTTCAACCTCTGSCACCATGAGTGTGTGATCGATACATTTGCAGTCTGCCA	733		
Db	5280	GTTTACAGCACATTTTACTCTGACCGCCATGATGGGTAGACCGCTATGTGGCTATCTGCCA	5339		
Qy	734	CCCTGTCAAGGCCCTTAGATTTCCGTACTCCCCGAATGCCAAATTTATCAATGTCTGCAG	793		
Db	5340	CCCTATCCGTGGCCCTTGATGTTCCGACATCCAGCAAGCCCGAGCTGTTAATGTGGCCAT	5399		

Qy	794	CTGGAATCCTCTCTTTCAGCCAAATTGGGTCTTCTGTAATAATGTTTCATCGCTACCAAAAA-----848
Db	5400	ATGGGCCCTGGCTTCAGTGTTGGTGTTCCTGTGTGCATCATGGGTTCAGACAAGATGGA5459
Qy	849	-----TACAGGCAAAGTTTCCATAGATTTGTACACTAACATTTCTCTCATCC892
Db	5460	AGATGAAGGTCAAGTGGGTGGTCTCTCTCCCTGACTCAATTAGTTTTCCAATGGTTCTTGTGCTG5519
Qy	849	-----TACAGGCAAAGTTTCCATAGATTTGTACACTAACATTTCTCTCATCC892
Db	5520	GTCCTCTGACCCTATTTCTCTCTCTGAGAGATCGAGTGCCTGGTGGAGATCCCTGCCCC5579
Qy	893	AACCTGGTACTGGGAAAACCTCGCTGAAGATCTGTGTTTTCATCTTCGCCCTTCATATATGCC952
Db	5580	TCAGGACTATTATGGGGCCCTGTATTCGCCATCTGCATCTTCTCTTTTCTTCATCATCCC5639
Qy	953	AGTGCTCATCATTAACCGTGTGCTATGCACTGATGATCTTTGGCGCTCAAGAGTGTCCGCAT1012
Db	5640	TGTGCTGATCATCTCTGTCTGTCTACAGCCTCATGATTCGACGACTTCGTGGTGTCCGCTT5699
Qy	1013	GCTCTCTGGCTCCAAAAGAAAAGCACAGAATCTTTCGAAGGATCACACGAGTGGTGTGCT1072
Db	5700	GCITTCAGGCTCCCGGAGAGGACCGMAACCTCGCGCGTATCACTCGACTGGTGTGCTGT5759
Qy	1073	GGTGGTGGCTGTGTTCATCGCTCTGTGGACTCCCATTCACATTTAGCTCATCATTAAGC1132
Db	5760	AGTGGTGGCTGTGTGTTGTGGGCTGTCTGGAGCGCTGTGCAGGTGTTTGTCTGGTCTCAAG5819
Qy	1133	CTTGGTTTACAATCCCAGAACTACGTTCCAGACGTGTTTCTTGGCACGTCTTGCATTGCTCT1192
Db	5820	ACTGGGTGTTACGCCAGGTAGTCAGAGTGGCATCTCTGGCGCTTCCTGCACAGCCCT5879
Qy	1193	AGGTTACACAAAACAGTGCCTCAACCCAGTCCCTTTATGCAATTTCTGGATGAAAACCTCAA1252
Db	5880	GGGCTATGTCAACAGTTGTCTCAATCCATTCCTATGCTTTCTCTGGATGAGAACTTCAA5939
Qy	1253	ACGATGCTTCAGAGAGTCTGTATCCCAACCTCTTCCAACTTGTGAGCAACAAACCTCCAC1312
Db	5940	GGCCTGCTTTAGAAAGTTCTGTGTCTTATCCCTGCACCGGAGATCAGGTTTCTTGA5999
Qy	1313	TCGAATTCG1321
Db	6000	TCGTGTCCG6008
 RESULT 5 US-11-136-527-3819 ; Sequence 3819, Application US/11136527 ; Publication No. US20050287570A1 ; GENERAL INFORMATION: ; APPLICANT: Wyeth ; APPLICANT: Mounts, William M ; TITLE OF INVENTION: Probe Arrays For Expression Profiling of Rat Genes ; FILE REFERENCE: 031896-041000 (AM101086) ; CURRENT APPLICATION NUMBER: US/11/136,527 ; PRIORITY FILING DATE: 2005-05-25 ; PRIOR APPLICATION NUMBER: US 60/574,294 ; PRIOR FILING DATE: 2005-05-26 ; NUMBER OF SEQ ID NOS: 362830 ; SOFTWARE: PatentIn version 3.2 ; SEQ ID NO 3819 ; LENGTH: 2116 ; TYPE: DNA ; ORGANISM: Rattus norvegicus US-11-136-527-3819		

```

RESULT 5
US-11-136-527-3819
; Sequence 3819, Application US/11136527
; Publication No. US20050287570A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William M
; TITLE OF INVENTION: Probe Arrays For Expression Profiling of Rat Genes
; FILE REFERENCE: 031896-041000 (AM101086)
; CURRENT APPLICATION NUMBER: US/11/136,527
; CURRENT FILING DATE: 2005-05-25
; PRIOR APPLICATION NUMBER: US 60/574,294
; PRIOR FILING DATE: 2005-05-26
; NUMBER OF SEQ ID NOS: 362830
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 3819
; LENGTH: 2116
; TYPE: DNA
; ORGANISM: Rattus norvegicus
US-11-136-527-3819

Query Match          9.1%;      Score 197.8;  DB 7;  Length 2116;
Best Local Similarity 53.2%;    Pred. No. 1.7e-49;
Matches 443;  Conservative 0;  Mismatches 387;  Indels 3;  Gaps 1;

          433  TCATGGCCCTCTACTCCATCGTGTGGGTGGGGCTCTTCGAAACTTTCCTGGTCATCT 492
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RESULT 7
US-10-750-623-36071/c
; Sequence 36071, Application US/10750623
; Publication No. US20050287531A1
; GENERAL INFORMATION:
; APPLICANT: MMI GENOMICS, INC.
; APPLICANT: DENISE, Sue K.
; APPLICANT: KERR, Richard
; APPLICANT: ROSENFELD, David
; APPLICANT: HOLM, Tom
; APPLICANT: BATES, Stephen
; APPLICANT: FANTIN, Dennis
; TITLE OF INVENTION: METHODS AND SYSTEMS FOR INFERRING BOVINE TRAITS
; FILE REFERENCE: MM11100-1
; CURRENT APPLICATION NUMBER: US/10/750,623
; CURRENT FILING DATE: 2003-12-31
; PRIOR FILING DATE: 2003-12-31
; PRIOR APPLICATION NUMBER: US 60/437,482
; NUMBER OF SEQ ID NOS: 64922
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 36071
; LENGTH: 1685
; TYPE: DNA
; ORGANISM: Bovine 19866880675545
US-10-750-623-36071

Query Match      9.0%; Score 193.8; DB 6; Length 1685;
Best Local Similarity 53.7%; Pred. No. 2.3e-48;
Matches 455; Conservative 0; Mismatches 377; Indels 15; Gaps 2;

Qy 419 CACGCCATCAGATCATGGCCCTCTACTCATCGTGTGGCGTGTGGGCTCTTCGAAA 478
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Qy 1345 CAGCGCTATCTCATCTCTTTTCATCTACTCGTGTGTGGCGTGTGGGCTCTCTGGAA 1286
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Qy 479 CTTCCTGTCTATGTATGTGTTCAGATACACCAAGATGAAGACTGCCACCAACATCTA 538
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Qy 1285 CTCATGTCTATCTACGTATCTCTGGCTAGCCNAGATGAAGCGGCCACCACTA 1226
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Qy 539 CATTTTCAACTTGTCTGTGGAGATGCTTAGCCACCAAGTACCTTGCCTTCCAGAGTGT 598
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Qy 1225 CATCTCAACTGGCCATCGCGATGAGCTGTCTATGCTCAGCGTGCCTTCTCTGTGTAC 1166
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Qy 599 GAATTTACCTAATGGAACTATGGCAATTTGGAACCATCTTTTGAAGATGATGATCTCCAT 658
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Qy 1165 CTCACATGTCTGTGCCACTGGCCCTTCGGCGCGCTACTCTGCGCCCTCTGTGCTCAGCGT 1106
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Qy 659 AGATTACTATTAACATGTTTACCAGCATATTCACCTCTGCACTGATGATGATGATGATGATA 718
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Qy 1105 GGACGAGTCAACATGTTTACCAGCATCTACTGTCTGACTGTCTGCTTAGCGTGGACCGCTA 1046
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Qy 719 CATTCAGTCTGCCACCTGTCAAGGCTTTAGATTTTCGTTACTCTCCCGAAATGCCAAAT 778
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Qy 1045 GTGGCCGTGTGCACCCCATCAAGGCGCGACGCTACCGCGCGGCCACCGTGGGCCAAGGT 986
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Qy 779 TATCAATCTGCAACTGGATCTCTCTTACGCCATTTGGTCTTCC---TGTAAATGTTTCAAT 835
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Qy 985 GGTGAATCTGGCGTGTGGGCTGTGCTGCTGTCTGCTCAATCTGCCCCATCGTGGTCTTCTC 926
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Qy 836 GGCTACAAACAAATAACAGCAAGGTTCCATAGATTTGTACACTAAATTTCTCTCATCCAAAC 895
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Qy 925 GCGNACGGCGGCCAACACGACGCGACGCGTGGCTGCAACATGTCTATGCCGAGCCGCG 866
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Qy 896 CTGTGACTGGGAAAACCTCTGTGAAGATCTGTGTTTTTCAATCTTCGCTTTCATATGCCAGT 955
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Qy 865 CCAGCGCTGGCTGGGGCTTTCGTGTTGTACATTTCTCATGCGCTTCTGCTGCTGCTGCGCGT 806
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Qy 956 GCTCATCATTTACCGTGTGCTATGACTCATGATCTTGGCGCTCAAGATGTCGCCATGCT 1015
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Qy 805 CGGGGCCATCTGCTTGTGCTTACGCTCTCATCATGCCAAATATGCGATGTTGGGCCCTCAA 746
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Qy 1016 CTCTGGCTCCAAAGAAAAGGACAGGAATCTTTCGAAGGATCACCGAGATGGTGGTGGTGGT 1075
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Qy 745 GCGCGCTGGCAGCGCCAGCGCTCGGAGGCGCAAGATCACCTGTGATGGTGTGATGATGTT 686
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
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Qy 1076 GGTGGCTGTGTTTCATCTGCTGCTGGACTCCCATTCACATTTACGTCATCATTAAGCCTT 1135
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Qy 685 GGTGATGTTGTTGTCTATCTGCTGGATGCCCTTTCTATGTGGTGAGCTAGTCAACGTTT 626
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Qy 1136 GGTTACAATCCAGAACTAGCTTCCAGACTGTTTCTTGGCACTTCTGCACTTGTCTTAGG 1195
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Qy 625 CCGGAGCAGGACGACGCCAGGTGA-----GCCAGCTGTGGTTCATCTCGG 578
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Qy 1196 TTACACAAACAGCTGCTCAACCCAGTCTCTTATGCAATTTCTGGATGAAAACCTTCAACG 1255
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Qy 577 TTACGCCAACAGCTGCGCCAAACCCCTCTCTAGGCTTCTTTTCAGACAACTTCAAGCG 518
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Qy 1256 ATGCTTC 1262
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
US-10-995-561-321
; Sequence 321, Application US/10995561
; Publication No. US20050272054A1
; GENERAL INFORMATION:
; APPLICANT: CARGILL, Michele et al.
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; TITLE OF INVENTION: CARDIOVASCULAR DISORDERS AND DRUG RESPONSE, METHODS OF
; TITLE OF INVENTION: DETECTION AND USES THEREOF
; FILE REFERENCE: CU001559
; CURRENT APPLICATION NUMBER: US/10/995,561
; CURRENT FILING DATE: 2004-11-24
; NUMBER OF SEQ ID NOS: 85702
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 321
; LENGTH: 1238
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-995-561-321
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Query Match      8.7%; Score 187.6; DB 6; Length 1238;
Best Local Similarity 51.9%; Pred. No. 1.5e-46;
Matches 434; Conservative 8; Mismatches 382; Indels 12; Gaps 1;

Qy 427 TCACGATCATGGCCCTCTACTCTCATCTGTGCGTGGTGGGCTCTTCGGAACCTTCTCTGG 486
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Qy 214 TCGTATCCAGTGCATCTACGCGTGTGTGCTGTGTGGGCTGTGTGGGCAACGCGCTGG 273
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Qy 487 TCATGTATGTATGTTCAGATACACCAAGATGAAGACTGCCACCAACATCTACATTTTCA 546
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Qy 274 TCATCTTCGTGATCCTTTCGCTAGCCCAAGATGAAGACGGCTTACCAACATCTACCTGCTCA 333
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Qy 547 ACCTTGTCTGGCAGATGCTTACCCACAGTACCTTCCCTTCCAGATGTGAATTACC 606
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Qy 334 ACCTGGCCGTAGCGACGAGCTCTTTCATGTCGAGCGTGCCTTTCGTGGCCCTCTGTCGGCG 393
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Qy 607 TAATGGAAACATGSCCATTTGGAAACCATCTTTTCCAAGATAGTATCTCCATAGATTACT 666
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Qy 394 CCCTGCGCCACTGCGCCCTTGGCTCCGTGTGTGTCGCGCGGTGCTCAGCGTCAACGCGCC 453
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Qy 667 ATAACTGTTTCCACAGCATATTCACCCCTCTGCAACCATGAGTGTGATCGATACATTTGAG 726
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Qy 454 TCAACATGTTTCCACAGCGTCTTCTGCTCTCACCGTGTCTCAGCGTGAACGCTACGTGGCG 513
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Qy 727 TCTGCCACCTTGTCAAGGCTTGTAGATTTTCGTAATCTCCCGAAATGCCAAATTTATCATG 786
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Qy 514 TGGTGCAACCTCTGCGCGCGCGACCTACCGCGCGCGCGAGCGTGGCGCAAGCTCATCAACC 573
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Qy 787 TCTGCAACTGATCTCTCTTTCAGCCATGCTGTCTCTGTAATGTTTCATGCTCAACAA 846
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Qy 574 TGGCGTGTGCTGGGATTCCTGTTGTGTCACTCTCCCATCGCCATCTTTCGACAGACCA 633
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Qy 847 AATACAGCAAGGTTTCCATAGATTTGACATAATCAATTTCTCATCCAACTGGTGA 906
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Qy 634 GACCGCTCGCGGCGCGCAGCGCTGGCCCTTGCAACCTGCACTGCGTGGGCCACACCGCGCTG 693
Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
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QY 667 ATAACTGTTTCAACGATATTTACCCCTCTGCACCATGAGTGTGATGATACATTTGCAG 726
DB 6455 TCAACATGTTTACCAAGCTTCTTCTGTCTCAACGCTCAGCGTGACCGCTACGTTGGCCG 6514
QY 727 TCTGCCACCTGTCAAGGCTTTAGATTTCCGTAATCTCCCGAATGCCAAATTTATCAATG 786
DB 6515 TGGTGACCCCTCTGCGCGGCGACCTACCGCGGCCGAGCGTGGCCAAAGCTCATCAACC 6574
QY 787 TCTGCAACTGATCTCTCTTTCAGCCATGTTCTTCTGTAATGTTTCAATGCTACAA 846
DB 6575 TGGCGGTGTGGTGGCATCCCTGTTGGTCACTCTCCCATGCCATCTTTCGACAGACCA 6634
QY 847 AATACAGCAGAGTTCCATAGATTGTAACATTAACATTTCTCATCCCAACCTGTTACTGGG 906
DB 6635 GACCGGCTCGCGGCGGCCGAGCGGCTGCAACCTGAGTGGCCACACCGCGCTGGT 6694
QY 907 AAAACCTCGTGAAGATCTGTGTTTTCATCTTCCGCTTCAATATGCGAGTGTCTCATATTA 966
DB 6695 CGGAGTCTGCTGCTACACTTTCTGCTGGGCTTCTGCTGCCCGTGGCCATTG 6754
QY 967 CGGTGTGATGAGTATGATCTTTCGCGCTCAAGAGTGTCCGATGCTCTCTGCTCCA 1026
DB 6755 GYCTGTGATCTGCTCATCTGTTGGCAAGATGCGCGCTGGCCCTGYGCGMKGGCTGGC 6814
QY 1027 AAGAAAGCAGAGGAATCTTCAAGAGTATCCAGGATGCTGCTGGTGGTGGTGGTGT 1086
DB 6815 AGCAGCGAGCGCTCGGAGAGAAATACAGGCTGGTGTGATGCTGGTGGTGGTGT 6874
QY 1087 TCATGCTGTGGATCTCCCATTTACATTTACGTCATCAATTAAGGCTTGGTTACAATCC 1146
DB 6875 TTGTGCTGTGGATGCTTTTACGTTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGT 6934
QY 1147 CAGAACTAGCTTCCAGATGTTTCTTGGGCTTCTGATGCTCTAGGTTACAAACA 1206
DB 6935 TTGATGCCACCGTCAAC-----CAGGTGCTCTTATCTTACGTTATGCAAYA 6982
QY 1207 GCTGCTCAACCCAGTCTTTATGATTTCTGATGAATTTCAAACTTCAAAAGTCTTC 1262
DB 6983 GCTGGCCAAACCCVATCTCTATGTYTCTCTCTCGCAACTTCGCGGATYCTTC 7038

RESULT 11
US-11-136-527-2101
; Sequence 2101, Application US/11136527
; Publication No. US20050287570A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William M
; TITLE OF INVENTION: Probe Arrays For Expression Profiling of Rat Genes
; FILE REFERENCE: 031896-041000 (AM101086)
; CURRENT APPLICATION NUMBER: US/11/136,527
; CURRENT FILING DATE: 2005-05-25
; PRIOR APPLICATION NUMBER: US 60/574,294
; PRIOR FILING DATE: 2005-05-26
; NUMBER OF SEQ ID NOS: 362830
; SOFTWARE: Patentin version 3.2
; SEQ ID NO 2101
; LENGTH: 3635
; TYPE: DNA
; ORGANISM: Rattus norvegicus
US-11-136-527-2101

Query Match 8.2%; Score 177; DB 7; Length 3635;
Best Local Similarity 52.6%; Pred. No. 5.7e-43;
Matches 443; Conservative 0; Mismatches 385; Indels 15; Gaps 2;
QY 423 GCCATCAGATCATGGCCCTTACTCCATCTGTGCTGGTGGGCTCTTCGGAACCTTC 482
DB 316 GCCATTCATCTCTTTTCATCTCTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTT 375
QY 483 CTGGTGTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 542

DB 376 ATGTCATTTTACGTGATCTCTGCGCTAGCCCAAGATGAAGACCGCAACCAATCTACATT 435
QY 543 TTCAACCTTCTCTGCGAGATGCTTACGCCACAGTACCTCGCTCCCTCCAGAGTGTGAAT 602
DB 436 CTAAACCTTGGCCATTTGCTGATGAGCTGCTATGCTCAGCGTGGCCCTTTCTGGTCACTTCC 495
QY 603 TACCTAATGGGAAACATGGCCATTTTGAACCAATCTTTTGAAGATAGTGTATCTCCATAGAT 662
DB 496 AGCTGTTTGGCCACTTGGCCCTTTTGGCGGCTACTTTTGGCGGCTGGTGTCTCAGCGTGGAT 555
QY 663 TACTATTAACATGTTTACAGCATATTCACCTCTGACCATGATGATGTTGATGATGATGAT 722
DB 556 GCAGTCAACATGTTTCAACCATCTACTGCTGATGCTGCTGCTGCTGCTGCTGCTGCTGCT 615
QY 723 GCAGTCTGCCACCTGTCAAGGCTTATGATTTCCGTAATCTCCCGAATATGCCAAATATATC 782
DB 616 GCTGTGCGACCAACGATCAAGGCGAGCGCTACCGTGGGCCCAAGTAGTGTG 675
QY 783 AATGCTGCAACTGATCTCTCTTTCAGCCATTTGGTCTTCTGTAATGTTTCAATGGC--T 839
DB 676 AACCTGGCGGTGTTGGTGTCTGCTACTGTTATCTTGGCCATCGTGGTCTTCTCAGGC 735
QY 840 ACAAACAAATACAGGCAAGGTTCCATAGATGTTACATAACATTTCTCTCATCCAACTGG 899
DB 736 ACCGAGCAACAGCGATGGCAGTGGCGCTGCAACATGCTCATGCCCGAGCCGCCAG 795
QY 900 TACTGGGAAACCTCGTGAAGATCTGTTGTTTTCATCTTGGCTTTCATATATGCCAGTGTCT 959
DB 796 CGCTGGTGGTGGGCTTGGTCTTATACATTTCTCATGGGCTTCTGCTGCTGCTGCTGCTG 855
QY 960 ATCATTTACCGTGTCTATGAGTATGATGATCTTGGCGCTCAAGAGTGTCCGATGCTCTCT 1019
DB 856 GCCATCTGCTGTTTACGCTGCTCATCTTGGCAAGATGCCATGGTGGGCTTCAAGGCC 915
QY 1020 GGCTCCAAAGAAAGGAGAGAAATCTTGAAGATCACAGGATGGTGGTGGTGGTGGTGGT 1079
DB 916 GGCTGGCAGCAGCGCAAGCGCTCAGAGCGCAAGATCACTCTAATGGTGTGATGATGGTGGT 975
QY 1080 GCTGTGTTTATCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1139
DB 976 ATGGTTTTTGTGATCTCTGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1035
QY 1140 ACAATCCAGAAACTAGTTTCCAGACTGTTTCTTGGCACTTCTGCAATGCTCTTACGGTTAC 1199
DB 1036 GAGCAAGACGACGCAAGCT-----GAGCAGTGTGCTGTGCTGCTGCTGCTGCTGCT 1083
QY 1200 ACAACAGCTGCTTCAACCCAGTCTCTTTATGCAATTTCTGATGAAATCTTCAACCGATGC 1259
DB 1084 GCCAATAGCTGTGCAACCCCATCTCTAGGGCTTCTGCTGCGGACAACTTCAAGCGCTCT 1143
QY 1260 TTC 1262
DB 1144 TTC 1146

RESULT 12
US-11-136-527-2159
; Sequence 2159, Application US/11136527
; Publication No. US20050287570A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William M
; TITLE OF INVENTION: Probe Arrays For Expression Profiling of Rat Genes
; FILE REFERENCE: 031896-041000 (AM101086)
; CURRENT APPLICATION NUMBER: US/11/136,527
; CURRENT FILING DATE: 2005-05-25
; PRIOR APPLICATION NUMBER: US 60/574,294
; PRIOR FILING DATE: 2005-05-26
; NUMBER OF SEQ ID NOS: 362830
; SOFTWARE: Patentin version 3.2
; SEQ ID NO 2159
; LENGTH: 1384
; TYPE: DNA


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; ORGANISM: Rattus norvegicus
US-11-136-527-2159

Query Match      8.0%; Score 172.6; DB 7; Length 1384;
Best Local Similarity 52.2%; Pred. No. 6.1e-42;
Matches 435; Conservative 0; Mismatches 389; Indels 9; Gaps 2;

QY 441 CTCCTACTCCATCGTGTGCGTGGGCTCTTCGGAACTTCTCGTCAATGATGATT 500
DB 280 CTCCTACTCTGTGTGCGACCGTGGGACTGAGTGGAAATACACTGGTCAATTTATGTGGTG 339

QY 501 GTCAGATACACCAAGATGAAGACTGCCACCAACATCTACATTTTCAACCTTCTCTGGCA 560
DB 340 CTGGCGCACCCAGATGAAGACAGTACTTAACGTGTACATCTGAACCTGGCGGTGGCT 399

QY 561 GATGCCCTTAGCCACCAAGTACCCTGCCCTTCCAG---AGTGTGAATTAACCTAATGGGAACA 617
DB 400 GAGCTATTATTATGTTGGGACTTCTCTTCTGGCCACGCAACCGCGTCTCTCTAC 459

QY 618 TGGCCATTTGGAAACCATCTTTTGCAGATAGTATCTCCATAGATTACTATTAACATGTTTC 677
DB 460 TGGCCCTTCCGCTCTCTTGTGCGCCTGGTGCATGACACTGGATGGCATCAACCAAGTTTC 519

QY 678 ACCAGCATATTACCCCTCTGCACCATGAGTGTGATCGATACATTTGCAGTCTGCCACCCCT 737
DB 520 ACCAGTATCTTTGCGCTGATGTCATGAGTGTGACGGTACTCTGGCCGTGGTCCACCCCT 579

QY 738 GTCAAGCCCTTAGATTTCGGTACTCTCCCGAAATGCCCCAAATTAATCAATCTGTGCAACTGG 797
DB 580 CTCCGCTCAGCCCGTGGCGTGGCCACCGGTAGCCAAAGATGGCCAGCGCGGCGTCTGG 639

QY 798 ATCTCTCTTCAGCCATTGGTCTTCTGTAAATGTTTATGGCTACACAAATACAGGCA 857
DB 640 GTCTTTTCGTCTCATGTCTCTGCGCGCTCTTGGTCTTCG-----CGGATGTCAGGAG 693

QY 858 GGTTCATAGATTGTACACTAAATCTCTCATCAACCTGTGTGAGTGGGAAACCTCTGTC 917
DB 694 GGTGGGGCACCTTGCAACCTGAGCTGGCCAGACCTGTGGGGCTGTGGGGTGCAGCCCTTC 753

QY 918 AAGATCTGTGTTTTCATCTTCGCTTCATTATGCCAGTGTCTCATATTAACCGTGTCTAT 977
DB 754 ATCACTACACGCTCTGTGTTGGGCTCTTTGGGCCCTCTGTGTGTCTATCTGTGTCTAC 813

QY 978 GGAATGATCTTGGCCCTCAAGAGTGTCCGATGCTCTCTGCTCCCAAGAAAGGAC 1037
DB 814 CTGCTCATTTGTGTCAAGGTGAAGGCTGCAGGATGCGGTAGGCTCTCAAGCGCGAGG 873

QY 1038 AGGAATCTTCGAAGGATCACAGGATGCTGCTGTGTGTGTGCTGTGTTCATCTGCTGC 1097
DB 874 CGTGGAGCGGAGGTGACTCGCATGGTGGTGGTGTGTGTGTGTGTGTGTGTGTGTGTGTG 933

QY 1098 TGGACTCCCAATTCACATTTACGTCAATTAAGCCCTTGGTTTCAATCCAGAAACTACG 1157
DB 934 TGGCTGCCCTTCTTCATTTGCAACATCGTCAACCTGSCCTTCACTGCGCCGAGGAACCC 993

QY 1158 TTCAGACTGTTTCTTGGCACTTCTGCAATGCTCTAGGTTTACAAACAGCTGCTCAAC 1217
DB 994 ACATCTGCCGCGCTCTATTCTTTGTTGGTGTCTCTATTATGCCAATAGCTGTGCCAAC 1053

QY 1218 CGAGTCTTTATGCATTTCTGGATGAAACTTTCAAACGATGCTTCAGAGAGTT 1270
DB 1054 CCCTGCTCTACGCGCTTTCTCTCGGACAACTTCGCCAGAGCTTCCGGAAGGT 1106
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RESULT 13
US-11-136-527-3742
; Sequence 3742, Application US/11136527
; Publication No. US20050287570A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William M
; TITLE OF INVENTION: Probe Arrays For Expression Profiling of Rat Genes
; FILE REFERENCE: 031896-041000 (AM101086)

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; CURRENT APPLICATION NUMBER: US/11/136,527
; CURRENT FILING DATE: 2005-05-25
; PRIOR APPLICATION NUMBER: US 60/574,294
; PRIOR FILING DATE: 2005-05-26
; NUMBER OF SEQ ID NOS: 362830
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 3742
; LENGTH: 1560
; TYPE: DNA
; ORGANISM: Rattus norvegicus
US-11-136-527-3742
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Query Match      7.3%; Score 158.8; DB 7; Length 1560;
Best Local Similarity 50.5%; Pred. No. 1.1e-37;
Matches 422; Conservative 0; Mismatches 402; Indels 12; Gaps 1;

QY 427 TCACGATCATGGCCCTCTACTCCATCGTGTGCGTGGGCTCTTCGGAACTTCTCGTGG 486
DB 341 TAACTATCCAGTGCATCTATGCGCTCGTGTGTCTGGTGGCCCTGGTAGGAAACGCGCTGG 400

QY 487 TCATGTATGTGATTCTGTGATACACCAAGATGAAGACTGCCACCAACATCTACATTTTCA 546
DB 401 TCTATTTCTGTATCTCTAGCTATGCAAAATGAAGACACCAACATCTACCTGCTCA 460

QY 547 ACCTTGCTCTGSCAGATGCTTTAGCACACAGTACCCTGCCCTTCAGAGTGTGAATTACC 606
DB 461 ACCTGGCGCTGCTGATGAGCTCTTCATGCTCAGTGTGCCATTTGTGGCTCTCGCGGCTG 520

QY 607 TAATGGGAACATGGCCATTTGGAAACATCTTTGCAAGATAGTATCTCCATAGATTACT 666
DB 521 CCTCGGCCACTTGGCGGCTTGGCGGCGGTCTGTGCGCGCAGTGTCTTAGTGTGGACGGCC 580

QY 667 ATAAATGTTTACCAGCATATTCAACCTCTGCACCATGAGTGTGTGATCGATATTCAG 726
DB 581 TTAAATGTTTACAGTGTCTTCTGCTCAGAGTGTCTGAGTGTGATGCTATGTGGCTG 640

QY 727 TCTGCCACCTGTCAAGGCTTTAGATTTCCTGTAATCTCCCGAAATGCGAAATTTATCAATG 786
DB 641 TAGTGACCCCTCTGCGAGCTGCCACCTACCGCGCGCCAGCGTGGCCAAATTAATCAACC 700

QY 787 TCTGCAATGGATCTCTCTTTCAGCCATTTGGTCTTCTCTGTAATGTTTCATGGCTACAA 846
DB 701 TGGGAGTGTGGCTAGCATCTTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 760

QY 847 ATACAGCAAGGTTTCCATAGATTGTACACTAACTTCTCTCATCAACCTGCTACTGGG 906
DB 761 GCGCAGCTCTGCGGGTGAAGCAGTAGCTTGCAACCTGCACTGGCTCTCACCGCGCTGCT 820

QY 907 AAAACCTCGTGAAGATCTGTGTTTTCATCTTCCCTTTCATTTATGCGCAGTGTCTCATATTA 966
DB 821 CTGCACTCTTGTGATCTATCTTTTGTGCTGCTTCTTCTTCTTCTTCTTCTTCTTCTTCT 880

QY 967 CGGTGTCTATGAGTGTATCTTGGCTCTCAAGAGTGTCCGATGCTCCGATGCTCTCTGGCTCA 1026
DB 881 GATTATGTTTACCTGCTTATCTGCGGCAAGTGTGCTGCTGTGCGCTCTGCGGCTGCGCTGGC 940

QY 1027 AAGAAAGCAGCAAGGATCTTCGAAGGATCACAGGATGCTGCTGCTGCTGCTGCTGCTGCTG 1086
DB 941 AACACCGGAGACCTCAGAGAGAAGATCACTAGGCTCGTGTCTAATGGTGTGCTGCTCT 1000

QY 1087 TCATCTGCTGTGGACTCCCATTTTCAATTTTACATCAATTAAGGCTTGGTGTGCTGCTGCTGCT 1146
DB 1001 TTTGCTATGCTGATGCTCATTTCTATGTAGTGTGAGCTTCTGAATCTGTGTTGTCAACAGCC 1060

QY 1147 CAGAAACTAGGTTCCAGACTGTTTCTTGGCACTTCTTGGCATTTCTGCTAGTGTGTACAAACA 1206
DB 1061 TCGATGCCACTGTCAACCATGTGTCCCTCATCTCAGCTATGCC-----AACA 1108

QY 1207 GCTGCTCTCAACCCAGTCTTTTATGCAATTTCTGATGAATAAATTTCAACAGGATGCTTC 1262
DB 1109 GCTGTGCCAACCCGATTTCTCTATGTTTCTCTCAGACAACTTCCGACGCTCTTTC 1164
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RESULT 14
US-10-533-355-9
; Sequence 9, Application US/10533355
; Publication No. US20050272040A1
; GENERAL INFORMATION:
; APPLICANT: University of Medicine and Dentistry of New Jersey
; APPLICANT: Black, Ira B.
; TITLE OF INVENTION: A METHOD FOR INCREASING SYNAPTIC GROWTH OR PLASTICITY
; FILE REFERENCE: UMD-0016
; CURRENT APPLICATION NUMBER: US/10/533,355
; CURRENT FILING DATE: 2005-04-29
; PRIOR APPLICATION NUMBER: US 60/422,986
; PRIOR FILING DATE: 2002-11-01
; NUMBER OF SEQ ID NOS: 16
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 9
; LENGTH: 1865
; TYPE: DNA
; ORGANISM: Rattus norvegicus
US-10-533-355-9

Query Match          7.3%; Score 158.8; DB 6; Length 1865;
Best Local Similarity 50.5%; Pred. No. 1.3e-37;
Matches 422; Conservative 0; Mismatches 402; Indels 12; Gaps 1;

QY 427 TCACGATCATGCCCTCTACTCCATCGTGTGGTGGGCTCTTCGGAACACTTCTCTGG 486
DB 189 TAACTATCCAGTGATCTATGCGTCTGTGTCTGTGGGCTGTAGGAAGCCCTGG 248
QY 487 TCATGTATGTATGTTCAGATACACCAAGATGAAGACTGCCAACACATCTACATTTCA 546
DB 249 TCATATTCGTGATCTAGCTATGCCAAATGAAGACGCCAACCAATCTACCTGTCA 308
QY 547 ACCTTGCTCTGCAGATGCTTAGCCACCAAGTACCTGCTCCCTTCAGAGTGTGAATACC 606
DB 309 ACCTGGCCCTGCTGATGAGCTCTTCATGCTCAGTGTGCCATTTGTGGCTCGCGGCTG 368
QY 607 TAATGGACATGGCCATTTGGAACCATCTTTTGAAGATAGTATCTCCATAGATTACT 666
DB 369 CCCTGGCCCACTGGCCGTTTCGGGGGGTGTCTGTGCGGCGATGCTTAGTGTGGACGGCC 428
QY 667 ATAACATGTTTCAACGACATATTCACCCCTCTGCACCATGAGTGTTCATGATCATATGCAG 726
DB 429 TTAACATGTTTCAAGAGTGTCTTTCGCTCACAGTGTCTCAGCTGATCGTATGTGGCTG 488
QY 727 TCTGCCACCTGTCAAGGCTTAGATTTCCGTAFTCCCGGAATAGCCAAAATTAATCAATG 786
DB 489 TAGTGCACCTCTGCGAGCTGCCACCTACCGCGGCGCCAGCTGTGCCAAGCTAATCAACC 548
QY 787 TCTGCAACTGGATCTCTCTTCAGCCATTTGCTTCCTGTAATGTTTCATGGCTACACAA 846
DB 549 TGGAGTGTGGCTAGCATCTTTGTGGTGCACCTGCCCATCGCATCTTCGCTGACACTA 608
QY 847 AATACAGGCAAGGTTCCATAGATTTTACACTAACATTTCTCTCATCCAACTGTACTGGG 906
DB 609 GSCCAGCTGTGGGGTGAGGAGTAGCTTGTGCAACTGCATGGCTCACCGGCGCTGGT 668
QY 907 AAAACCTCGTGAAGATCTGTGTTTTCATCTTCGCTTCATTAATGCAAGTGTCTCATTA 966
DB 669 CTGCAGTCTTTGTGATCTATACTTTTTTGTGGTCTCTACTCCCGGTTCTGGCTATCG 728
QY 967 CGGTGTGCTATGGATGATGATCTTGGCGCTCAAGAGTGTCCGATGCTCTCTGGCTCCA 1026
DB 729 GATTATGTTACTGCTTTATCGTGGGCAAGATGCGTGTGTGGCCCTGCGGGCTGGCTGGC 788
QY 1027 AAGAAAAGGACAGGAATCTTCGAAGGATCACCAAGATGCTGTGGTGTGGTGTGTGT 1086
DB 789 AACACGAGGAGGCGCTCAGAGAAGAGATCACTAGGCTGTGTCTAATGTGTGACTGTCT 848
QY 1087 TCATCGTCTGTGGACTCCCAATCAATTTACGTCAATTAAGCCCTTGGTTACAATCC 1146
DB 849 TTGTGCTATGCTGGATGCCATCTTATGTATGTGCAGCTTCTGAATCTGTTTGTCCAGGCC 908
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QY 1147 CAGAACTACGTTCCAGACTGTTTCTTGGCACTTCTGCAATGCTCTAGGTTACAAACA 1206
DB 909 TCGATGCCACTGTCAACCATGTGTCCTCATCTCCTCAGCTATGCC-----AACA 956
QY 1207 GCTGCTCAACCCAGTCTCTTTATGATGATTTCTGGATGAAACTTCAAACGATGCTTC 1262
DB 957 GCTGTGCCAACCCGATTTCTATGTTTCTCTATGTTTCTCTCAGACAACCTTCGACGCTCTTC 1012

RESULT 15
US-10-750-185-62128/c
; Sequence 62128, Application US/10750185
; Publication No. US20050260603A1
; GENERAL INFORMATION:
; APPLICANT: MMI GENOMICS, INC.
; APPLICANT: DENISE, Sue K.
; APPLICANT: KERR, Richard
; APPLICANT: ROSENFELD, David
; APPLICANT: HOLM, Tom
; APPLICANT: BATES, Stephen
; APPLICANT: FANTIN, Dennis
; TITLE OF INVENTION: COMPOSITIONS FOR INFERRING BOVINE TRAITS
; FILE REFERENCE: MM1100-2
; CURRENT APPLICATION NUMBER: US/10/750,185
; CURRENT FILING DATE: 2003-12-31
; PRIOR APPLICATION NUMBER: US 60/437,482
; PRIOR FILING DATE: 2002-12-31
; NUMBER OF SEQ ID NOS: 64922
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 62128
; LENGTH: 856
; TYPE: DNA
; ORGANISM: Bovine 19866881260208
US-10-750-185-62128

Query Match          7.0%; Score 151.8; DB 6; Length 856;
Best Local Similarity 93.0%; Pred. No. 9.7e-36;
Matches 159; Conservative 0; Mismatches 12; Indels 0; Gaps 0;

QY 1212 CTCAACCCAGTCTCTTTATGCAATTTCTGGATGAAAACTTCAAACGATGCTTCAGAGAGTTC 1271
DB 856 CTGAACCCCGTCTTTATGCAATTTCTGGATGAAAACTTCAAACGATGCTTCAGAGAGTTC 797
QY 1272 TGTATCCCAACTCTTCCAACTTGAGCAACAAACTCCACTCGAATTCGTCAAGAACT 1331
DB 796 TGTATCCCAACTTCTCCCACTTGAGCAACAAACTCCACTCGAATTCGTCAAGAACT 737
QY 1332 AGAGACCACCCCTCCACGCGCAATACAGTGATAGAACTAATCATCATCAGTA 1382
DB 736 AGAGACCACCCCTCCACAGCCCAATACGCTGGATAGGACTAACCATCAGTA 686
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Search completed: January 9, 2006, 15:42:40
Job time : 311.944 secs